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JSC-12947
part 3 of 4

NEAR EARTH PHOTOGRAPHS FROM THE APOLLO MISSIONS
AND THE APOLLO-SOYUZ TEST PROJECT

NASA CR:

151587

By

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MICROFILMED
MAY 16 1981

Prepared By

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Houston, Texas

Contract NAS 9-15200

For

EARTH OBSERVATIONS DIVISION
SPACE AND LIFE SCIENCES DIRECTORATE

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Houston, Texas

August 1977

LEC-11026
part 3 of 4



HANDHELD COLOR PHOTOGRAPHS
MAGAZINE B
AS 9-21

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3297	Mar 9	33 47N	98 40W	20	Dark	53	1805	106	G-20	0	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Texas, Oklahoma, Wichita and Red Rivers, Lake Kemp, Kickapoo, Diversion, and Wichita, City of Wichita Falls. GEOLOGY/HYDROLOGY: Central plains of sedimentary origin. AGRICULTURE: Extensive cultivation, field patterns easily recognizable. FORESTRY: Scattered shrubform, range grass.
3298	9	32 35N	97 09W	90	Dark	53	1805	105	G-20	0	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Texas, Dallas-Fort Worth, Trinity River. GEOLOGY/HYDROLOGY: Central plains of rolling terrain and alluvial deposits. AGRICULTURE: Scattered field patterns, range lands. FORESTRY: Shrubform changing to dense hardwood along drainage, range grasses. METEOROLOGY: Cirrus spissatus.
3299	9	32 48N	96 52W	90	Dark	53	1806	105	G-20	0	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Texas, Dallas-Fort Worth, Trinity River. GEOLOGY/HYDROLOGY: Central sedimentary plains and rolling terrain. AGRICULTURE: Scattered field patterns, range lands. FORESTRY: Shrubform changing to dense hardwood forests along drainage.
3300	9	33 28N	94 26W	0	Dark	55	1807	105	G-20	0	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Texas, Arkansas, Lake Texarkana, Red River Valley. GEOLOGY/HYDROLOGY: Central sedimentary plains containing flood plain deposits and dendritic drainage. AGRICULTURE: Extensive cultivation, generally irregular shaped field patterns, range land.

* NADIR POINT OF CAMERA

A-51

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE B
AS 9-21

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3301	Mar 9	32 02N	93 19W	0	Dark	55	1807	105	G-20	10	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Louisiana, Red River, Toledo Bend Reservoir, Cities of Shreveport and Natchitoches. GEOLOGY/HYDROLOGY: Central Plains, meandering river on the flood plain, dendritic drainage. AGRICULTURE: Scattered irregular field patterns. FORESTRY: Mixed pine/hardwood with predominantly hardwood bottomland. METEOROLOGY: Cirrus fibratus.
3302	9	32 33N	91 26N	0	Dark	55	1807	105	G-20	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Louisiana, Monroe. GEOLOGY/HYDROLOGY: Mississippi River flood plain, alluvial deposits. AGRICULTURE: Intensive cultivation, field pattern visible. FORESTRY: Mixed forest stands.
3303	9	31 10N	91 12W	0	Dark	55	1807	105	H-24	25	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Louisiana Mississippi, Mississippi River, Lake Maupras, Cities of Matchez and Baton Rouge. GEOLOGY/HYDROLOGY: Flood plain region and coastal plain area. AGRICULTURE: Intense cultivation, irregular field patterns separated by stands of timber. FORESTRY: Mixed pine/hardwood, most conifers in upland, hardwood bottomland. METEOROLOGY: Cirrus fibratus.
3304	9			0	Dark				H-24	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean.
3305	9	32 37N	114 40W	0	Normal	53	1935	105	G-18	20	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Mexico, California, Arizona, Colorado River, All American Canal, Grand Desert, Imperial Valley, Chocolate Mountains, City of Yuma, Town of Holtville. GEOLOGY/HYDROLOGY: Basin and Range provinces, alluvial and fluvial valley deposits. AGRICULTURE: Very heavy cultivation, irrigation system clearly visible, field patterns contrast sharply with surrounding terrain. FORESTRY: Scattered desert shrubform. METEOROLOGY: Alto-cumulus, cumulus congestus, cumulo-nimbus, cumulus humilis.

* NADIR POINT OF CAMERA

A-52

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE B
AS 9-21

Frame No.	Date	Latitude deg. min.	Longitude deg. min.	Principal Point	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
3306	Mar 9	31 07N	110 23W		Dark	53	1937	104	H-22	10	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Mexico, Arizona, Fort Huachuca, Bisbee. GEOLOGY/HYDROLOGY: Basin and Range province of tertiary volcanic ranges and alluvial deposits. AGRICULTURE: Large field patterns visible near limits of frame. FORESTRY: Scattered desert shrubform with some mixed conifers at higher elevations. METEOROLOGY: Cumulus humilis, cumulus congestus.
3307	9	31 46N	107 00W		Normal	52	1938	103	G-19 H-22	10	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Mexico, Texas, New Mexico, Rio Grande Valley, City of El Paso. GEOLOGY/HYDROLOGY: Basin and Range province of tertiary volcanic ranges and extensive quaternary alluvium. AGRICULTURE: Highly concentrated area of cultivation along Rio Grande River. FORESTRY: Desert shrubform with some non-commercial conifers at higher elevations. METEOROLOGY: Cirrus fibratus.
3308	9	31 44N	106 23W		Normal	52	1938	103	G-19 H-22	10	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Mexico, Texas, New Mexico, Rio Grande Valley, White Sands, San Andres Mountains, Cities of El Paso, and Las Cruces. GEOLOGY/HYDROLOGY: Tertiary volcanics and quaternary alluvium deposits of the Basin and Range province. AGRICULTURE: Highly concentrated area of cultivation along the Rio Grande River. FORESTRY: Desert shrubform with some non-commercial conifers at higher elevations. METEOROLOGY: Cirrus fibratus.
3309	9	30 40N*	102 50W		Normal	50	1938	103	H-23	65	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Mexico, Texas, Rio Grande Valley, Pecos River, Town of Del Rio. GEOLOGY/HYDROLOGY: Central lowland plains. FORESTRY: Scattered shrubform. METEOROLOGY: Cirrus spissatus.

* NADIR POINT OF CAMERA

A-53

HANDHELD COLOR PHOTOGRAPHS

MAGAZINE B

AS 9-21

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3310	Mar 9	29 15N	98 46W	0	Normal	50	1940	102	G-21	25	Vert.	<u>GEOGRAPHY/CARTOGRAPHY</u> : United States, Texas, San Antonio. <u>GEOLOGY/HYDROLOGY</u> : Boundary of coastal plain and central fertile sedimentary lowlands. <u>AGRICULTURE</u> : Extensive cultivation, heavy concentration of field patterns. <u>FORESTRY</u> : Shrubform with some intermediate size hardwood. <u>METEOROLOGY</u> : Cirrus spissatus.
3311	9	22 32N	84 04W	0	Normal	50	1943	102	J-26	55	Obl.	<u>GEOGRAPHY/CARTOGRAPHY</u> : Cuba, Capes San Antonio Corrientes and Francis, Yucatan Channel, Guardian Bay, Town of Pinar del Rio. <u>GEOLOGY/HYDROLOGY</u> : Low plains region. <u>AGRICULTURE</u> : Scattered field patterns, moderate to low concentration of agriculture. <u>FORESTRY</u> : Broadleaf evergreen, semi-dense to dense forest stands. <u>METEOROLOGY</u> : Cirro-cumulus, alto-cumulus, cumulus congestus.
3312	9	23 00N*	81 30W	0	Normal	50	1943	102	J-26	65	Obl.	<u>GEOGRAPHY/CARTOGRAPHY</u> : Cuba, Island of the Pines, Canarres Archipelago, Gulf of Betabano. <u>GEOLOGY/HYDROLOGY</u> : Low plains region. <u>METEOROLOGY</u> : Cumulo-nimbus, cumulus congestus, alto-cumulus. <u>OCEANOGRAPHY</u> : Caribbean Sea, tonal variations in nearshore zone.
3313	9	19 20N	75 10W	3	Normal	47	1944	102	J-26	20	Obl.	<u>GEOGRAPHY/CARTOGRAPHY</u> : Cuba, Oriente Province, Gulf of Guantayabo, Windward Passage, Cape Lucrecia, Nipe Bay, Towns of Manzanillo, Bayamo, and Benes. <u>GEOLOGY/HYDROLOGY</u> : Low plains region. <u>AGRICULTURE</u> : Moderate to heavy cultivation, in Guantayabo Gulf area. <u>FORESTRY</u> : Broadleaf evergreen forests. <u>METEOROLOGY</u> : Cumulus humilis, alto-cumulus, cirrus fibratus. <u>OCEANOGRAPHY</u> : Caribbean Sea, submarine coral reefs visible, depth variations.

* NADIR POINT OF CAMERA

A-54

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE B
AS 9-21

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
	Mar	Latitude deg. min.	Longitude deg. min.									
3314	9	20 28N	77 38W	3	Normal	48	1945	102	J-26	30	Obl.	<p><u>GEOGRAPHY/CARTOGRAPHY</u>: Cuba, Oriente Province, Gulf of Guacanayabo, Cape Cruz, Sierra Maestra, Town of Manzanillo.</p> <p><u>GEOLOGY/HYDROLOGY</u>: Plains region, coral reefs, and coastal sedimentation.</p> <p><u>AGRICULTURE</u>: Numerous field patterns along Gulf of Guacanayabo.</p> <p><u>FORESTRY</u>: Some broadleaf evergreen forests.</p> <p><u>METEOROLOGY</u>: Alto-cumulus.</p> <p><u>OCEANOGRAPHY</u>: Caribbean Sea, submarine topography, coral reefs and depth variations visible.</p>
3315	9	18 28N	77 16W	8	Normal	47	1945	102	J-26	15	Obl.	<p><u>GEOGRAPHY/CARTOGRAPHY</u>: Jamaica, Montego Bay, North and South Negril Point, Town of Montego Bay.</p> <p><u>GEOLOGY/HYDROLOGY</u>: Complex plateau and hills of sedimentary and igneous origin.</p> <p><u>AGRICULTURE</u>: Some field patterns visible.</p> <p><u>FORESTRY</u>: In general, broadleaf evergreen.</p> <p><u>METEOROLOGY</u>: Cumulus humilis, cumulus congestus.</p> <p><u>OCEANOGRAPHY</u>: Caribbean Sea, sun glint, current patterns and possible swell patterns.</p>
3316	9	18 19N	76 39W	8	Normal	47	1945	102	J-26	15	Obl.	<p><u>GEOGRAPHY/CARTOGRAPHY</u>: Jamaica, Morant Point, Portland Bight, City of Kingston.</p> <p><u>GEOLOGY/HYDROLOGY</u>: Complex plateau region, sedimentary and igneous beds.</p> <p><u>METEOROLOGY</u>: Cirro-cumulus, cumulus humilis, cumulus congestus.</p> <p><u>OCEANOGRAPHY</u>: Caribbean Sea, sun glint, possible swell patterns.</p>
3317	9	18 28N	74 17W	0	Normal	45	1946	102	J-26	20	Obl.	<p><u>GEOGRAPHY/CARTOGRAPHY</u>: Haiti, Cape Carcasse, Massis de la Hotte, Vache Island, Towns of Jeremie, and Les Cayes.</p> <p><u>GEOLOGY/HYDROLOGY</u>: Complex mountains of igneous and sedimentary origin.</p> <p><u>FORESTRY</u>: Rainforest, broadleaf evergreen.</p> <p><u>METEOROLOGY</u>: Alto-cumulus, cumulus congestus, cumulus humilis.</p> <p><u>OCEANOGRAPHY</u>: Caribbean Sea, depth variations visible near island.</p>

A-55

* NADIR POINT OF CAMERA

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE B
AS 9-21

Frame No.	Date	Principal Latitude deg. min.	Principal Longitude deg. min.	Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
3318	Mar 9	17 56N	71 53W	0	Normal	45	1946	102	J-27	20	Obl.	<p>GEOGRAPHY/CARTOGRAPHY: Haiti, Dominican Republic, Capes Beata and Falso, Lake Enriquillo, Town of Pedernales.</p> <p>GEOLOGY/HYDROLOGY: Complex mountains of igneous and sedimentary origin, plateaus and coastal plain areas.</p> <p>AGRICULTURE: Some irregular shaped field patterns.</p> <p>FORESTRY: Broadleaf evergreen.</p> <p>METEOROLOGY: Cumulus humilis, cumulus congestus.</p> <p>OCEANOGRAPHY: Tonal differences near coastal areas indicate ocean depth variations.</p>
3319	9	16 25N*	68 52W	8	Normal	40	1947	102	K-26	20	Obl.	<p>GEOGRAPHY/CARTOGRAPHY: South America, Venezuela, Colombia, Gulf of Venezuela, Paragana Peninsula, Aruba Island, Cities of Santa Marta, Riohacha, Punto Fijo, and Maracaibo, Caribbean Sea.</p> <p>GEOLOGY/HYDROLOGY: Coastal plains and complex plateau regions.</p> <p>METEOROLOGY: Cirro-cumulus, cumulus congestus, cumulo-nimbus.</p>
3320	9	16 08N*	68 30W	8	Normal	40	1947	102	K-26	20	Obl.	<p>GEOGRAPHY/CARTOGRAPHY: South America, Venezuela, Colombia, Gulf of Venezuela, Paragana Peninsula, Guajira Peninsula, Aruba Island, Sierra Nevada de Sta Maria, Cities of Riohacha and Punto Fijo.</p> <p>GEOLOGY/HYDROLOGY: Coastal plain and plateau region.</p> <p>METEOROLOGY: Cirro-cumulus, Cumulus Congestus, cirrus.</p>
3321	9	12 37N*	62 42W	0	Normal	20	1949	101	K-27	4	Obl.	<p>GEOGRAPHY/CARTOGRAPHY: Lesser Antilles, Los Roques Islands, Orchilla Island, Venezuelan coast near Caracas also visible.</p> <p>GEOLOGY/HYDROLOGY: Volcanic and coral islands.</p> <p>METEOROLOGY: Cirrus fibratus, alto-stratus.</p> <p>OCEANOGRAPHY: Caribbean Sea, coral reefs and islands, sunglint.</p>

* NADIR POINT OF CAMERA

A-56

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE B
AS 9-21

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3222	Mar 9	11 06N	63 45W	0	Normal	20	1949	101	K-27	1	Obl.	<u>GEOGRAPHY/CARTOGRAPHY</u> : South America, Venezuela, Araya Peninsula, Margarita Island, Towns of Porlamar, Cumana, Barcelona and Puerto la Cruz. <u>GEOLOGY/HYDROLOGY</u> : Complex mountain region. <u>FORESTRY</u> : Dense vegetation inland. <u>METEOROLOGY</u> : Cumulus humilis. <u>OCEANOGRAPHY</u> : Caribbean Sea, sun glint, some swell patterns.
3223	9				Dark						Vert.	Partial frame

A-57

* NADIR POINT OF CAMERA

80

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C
AS 9-22

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3324	Mar. 8				Dark					40	Obl.	METEOROLOGY: Cirrus fibratus, cumulus humilis, alto-cumulus. COENOGRAPHY: Swell patterns visible in sun glint area.
3325	8	32 45N*	112 02W	10	Normal	50	2001	105		80	Obl.	GEOGRAPHY/CARTOGRAPHY: United States; Arizona, Utah. GEOLOGY/HYDROLOGY: Basin and range province. METEOROLOGY: Cumulus humilis, snow cover in mountain and high plateau areas.
3326	8	32 25N*	109 45W	10	Normal	50	2002	105		80	Obl.	GEOGRAPHY/CARTOGRAPHY: United States; Arizona, Utah, New Mexico. GEOLOGY/HYDROLOGY: Basin and Range Province and Southern Rocky Mountain complex. METEOROLOGY: Cumulus humilis, snow cover in mountain and high plateau areas.
3327	8	32 03N*	107 32W	10	Normal	50	2002	105	G-19	80	Obl.	GEOGRAPHY/CARTOGRAPHY: United States; Arizona, New Mexico, Colorado. GEOLOGY/HYDROLOGY: Basin and Range Province. METEOROLOGY: Cumulus humilis, snow cover in mountain and high plateau areas.
3328	8	31 37N*	105 18W	10	Normal	50	2002	105	G-19	60	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, New Mexico, Colorado, Black Mountains, Rio Grande, Elephant Butte Reservoir. GEOLOGY/HYDROLOGY: Basin and Range Province, quaternary alluvium and volcanic mountains. FORESTRY: Mixed conifers at higher elevations, desert shrubform with deciduous shrubform at lower elevations. METEOROLOGY: Cumulus humilis, alto-cumulus, cumulus fractus.
3329	8	33 03N	106 40W	25	Normal	50	2003	105	G-19	13	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, New Mexico, White Sands, Rio Grande, Elephant Butte Reservoir, San Andres and Sacramento Mountains, Tularosa Valley, Town of Alamogordo. GEOLOGY/HYDROLOGY: Basin and Range Province of sedimentary mountains and alluvium deposits. AGRICULTURE: Cultivation patterns along Rio Grande River. FORESTRY: Conifers in Sacramento Mountains, scattered desert shrubform at lower elevations. METEOROLOGY: Cumulus humilis, cumulus congestus.

* NAIR POINT OF CAMERA

A-58

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C
AS 9-22

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3330	Mar. 8	33 15N	105 20W	60	Normal	50	2003	105	G-19	12	Obl.	<u>GEOGRAPHY/CARTOGRAPHY</u> : United States, New Mexico, Texas, Sacramento Mountains, Pecos River, Estacado Plains, Town of Roswell. <u>GEOLOGY/HYDROLOGY</u> : Basin and Range Province adjacent to the Great Sedimentary Plains Region. <u>AGRICULTURE</u> : Intense irrigation along Pecos River near Roswell New Mexico. Extensive field pattern configuration in Texas. <u>FORESTRY</u> : Scattered desert shrubform. <u>METEOROLOGY</u> : Cumulus humilis, cumulus congestus, cumulus fractus.
3331	8	33 20N	104 10W	60	Normal	50	2003	105	G-19	10	Obl.	<u>GEOGRAPHY/CARTOGRAPHY</u> : United States, New Mexico, Texas, Pecos River, Lake McMillan, Estacado Plains, Towns of Roswell and Carlsbad. <u>GEOLOGY/HYDROLOGY</u> : Central basin platform and sedimentary plains region. <u>AGRICULTURE</u> : Very extensive, field patterns easily definable. <u>FORESTRY</u> : Scattered desert shrubform and grass. <u>METEOROLOGY</u> : Cirro-cumulus.
3332	8	32 52N	103 30W	50	Normal	50	2004	105	G-19	2	Obl.	<u>GEOGRAPHY/CARTOGRAPHY</u> : United States, Texas, New Mexico, Pecos River, Lake McMillan, Estacado Plains, Towns of Roswell, Carlsbad, Hobbs, Portales and Amarillo. <u>GEOLOGY/HYDROLOGY</u> : Central basin platform and great plains of limestone and sandstones. <u>AGRICULTURE</u> : Prominent field patterns along Pecos River and in Texas Plains. <u>FORESTRY</u> : Scattered shrubform and grass. <u>METEOROLOGY</u> : Cirro-cumulus.
3333	8	33 30N	102 17W	60	Normal	50	2004	105	G-19	10	Obl.	<u>GEOGRAPHY/CARTOGRAPHY</u> : United States, Texas, New Mexico, Estacado Plains, Towns of Hobbs, Amarillo, Plainview and Lubbock. <u>GEOLOGY/HYDROLOGY</u> : Central basin limestone platform and plains region. <u>AGRICULTURE</u> : Very intense cultivation as well as extensive range lands. <u>FORESTRY</u> : Shrubform and grass. <u>METEOROLOGY</u> : Cirro-cumulus, snow cover in northern portions of plains.

A-59

* NADIR POINT OF CAMERA

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	AS 9-22		% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.						WAC	No.			
3334	Mar. 8	31 57N	102 15W	50	Normal	50	2004	105	H-23	G-19	0	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Texas, Caprock Escarpment, Estacado Plains, Towns of Odessa, Midland, Big Springs and Lamesa. GEOLOGY/HYDROLOGY: Central basin platform and plains with numerous dry lake deposits. AGRICULTURE: Very intense cultivation. FORESTRY: Scattered shrubform.
3335	8	33 09N	100 30W	70	Normal	51	2004	105	G-19		10	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Texas, Oklahoma, Caprock Escarpment, Towns of Big Springs, Lubbock and Wichita Falls. GEOLOGY/HYDROLOGY: Limestone Caprock Plateau and central plains. AGRICULTURE: Very extensive cultivation. FORESTRY: Scattered shrubform and grass. METEOROLOGY: Snow cover in northern plains area.
3336	8	32 47N	100 11W	70	Normal	51	2004	105	G-20		5	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Colorado River, Towns of Big Springs, Sweetwater, Abilene, and Lawcastle, Possum Kingdom Reservoir, Lakes Fort Phantom Hill, Coleman and Thomas. GEOLOGY/HYDROLOGY: Sedimentary plateau and elevated plains region. AGRICULTURE: Scattered areas of intense cultivation. FORESTRY: Scattered shrubform grading to low deciduous forest stands to east. METEOROLOGY: Cirrus, snow cover in northern plains area.
3337	8	33 32N	99 11W	60	Normal	51	2004	105	G-20		7	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Texas, Oklahoma, Lakes Fort Phantom Hill, Coleman, Brownwood, Bridgeport, Kemp and Kackapoo, Possum Kingdom Reservoir, Towns of Abilene, Wichita Falls, Newcastle and Brokenridge. GEOLOGY/HYDROLOGY: Elevated plains region. AGRICULTURE: Scattered areas of intense cultivation. FORESTRY: Shrubform changing to mixed conifer, hardwood stands of little commercial value. METEOROLOGY: Strato-cumulus, cirrus.

* NADIR POINT OF CAMERA

A60

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	AS 9-22		% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.						Altitude n. mi.	WAC No.			
3338	Mar. 8	31 40N	99 07W	75	Normal	51	2005	105		G-20	0	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Lakes Brownwood and Coleman, Possum Kingdom and Hubbard Creek Reservoirs, Towns of Abilene, Brownwood and Graham. GEOLOGY/HYDROLOGY: Limestone belt and central elevated plains region. AGRICULTURE: Intense cultivation, primarily along drainage. FORESTRY: Non commercial hardwood forests and deciduous shrubform.
3339	8	33 07N	97 43W	70	Normal	51	2005	105		G-20	25	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Texas, Delinoma, Hubbard Creek and Possum Kingdom Reservoirs, Dallas-Fort Worth. GEOLOGY/HYDROLOGY: Elevated plains regions of fertile sedimentary beds. AGRICULTURE: Moderate to heavy cultivation along drainage. FORESTRY: Non commercial stands of mixed conifer hardwood. METEOROLOGY: Cirrus, strato-cumulus.
3340	8	31 02N	97 41W	50	Normal	51	2005	105		H-23	0	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Texas, Lake Waco, Austin and Buchanan, Stillhouse Hollow and Delton Reservoir, Cities of Waco, Temple, Killeen and Austin, Interstate Highway 30. GEOLOGY/HYDROLOGY: Boundary of dissected plateau and central elevated plains. AGRICULTURE: Moderate to heavy cultivation. Field patterns variable in size and shape. FORESTRY: Non commercial stands of mixed conifer hardwoods. METEOROLOGY: Cirrus.
3341	8	30 45N	97 20W	70	Normal	51	2005	105		H-24	0	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Texas, Lake Whitney, Waco, and Travis, Stillhouse Hollow and Delton Reservoirs, Brazos River, Cities of Waco, Temple, Killeen, Austin and Bryan. GEOLOGY/HYDROLOGY: Boundary of dissected plateau and central elevated plains. AGRICULTURE: Scattered field patterns, conjoined in areas. FORESTRY: Mixed shrubform and non commercial hardwoods. METEOROLOGY: Cirrus.

* NADIR POINT OF CAMERA

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C

AS 9-22

Frame No.	Date	Principal Latitude deg. min.	Principal Longitude deg. min.	Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. m.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
3342	Mar. 8	28 53N	96 38W	0	Normal	51	2005	105	H-24	0	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Texas, Matagorda and San Antonio Bay, Cavallo Pass, Town of Victoria. GEOLOGY/HYDROLOGY: Sedimentary coastal plain region with lagoons and sand bars. AGRICULTURE: Intense cultivation, numerous field patterns. FORESTRY: Mixed shrubform and non commercial hardwoods, coastal grasslands. OCEANOGRAPHY: Gulf of Mexico, a southerly longshore current indicated by sediments in the nearshore zone.
3343	8	22 37N	78 10W	0	Normal	52	2009	105	J-26	15	Vert.	GEOGRAPHY/CARTOGRAPHY: Cuba, Camaguey Archipelago, Bay of Jigüey, Great Bahama Bank. GEOLOGY/HYDROLOGY: Rolling plains regions with offshore reef deposits. AGRICULTURE: Scattered field patterns on mainland, moderate to heavy cultivation. FORESTRY: Tropical rainforest and coastal mangrove. METEOROLOGY: Cirrus, cumulus humilis. OCEANOGRAPHY: Old Bahama Channel, submarine topography is clearly visible, coral and coral reefs, turbidity channels, and color changes with increasing depths.
3344	8	22 33N	78 11W	90	Normal	22	2010	105	J-26	10	Vert.	GEOGRAPHY/CARTOGRAPHY: Cuba, Camaguey Archipelago, Bay of Jigüey, Great Bahama Bank. GEOLOGY/HYDROLOGY: Elevated coastal plains region. AGRICULTURE: Scattered field patterns on mainland, moderate to heavy cultivation. FORESTRY: Tropical rainforests and coastal mangrove. METEOROLOGY: Cumulus humilis. OCEANOGRAPHY: Caribbean Sea, Old Bahama Channel, submarine topography including coral and coral reefs, turbidity current channels, depth variations.

* NADIR POINT OF CAMERA

A-62

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C

AS 9-22

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3345	Var. 8	22 33N	77 07W	0	Normal	52	2010	105	J-26	14	Vert.	GEOGRAPHY/CARTOGRAPHY: Bahama Islands, Andros Island, Snap Point, Village of Kemp's Bay. GEOLOGY/HYDROLOGY: Elevated plains of marine origin. FORESTRY: Tropical rainforests, coastal mangrove and grasses. METEOROLOGY: Alto-cumulus, cirro-cumulus. OCEANOGRAPHY: Caribbean Sea, Tongue of the Ocean, bottom topography of areas adjacent to the deep clearly visible.
3346	8	20 56N*	75 03W	0	Normal	52	2010	105	J-26	10	Vert.	GEOGRAPHY/CARTOGRAPHY: Bahama Islands, Great Ragged Island. GEOLOGY/HYDROLOGY: Elevated plains of marine origin. FORESTRY: Tropical rainforests. METEOROLOGY: Cirro-cumulus. OCEANOGRAPHY: Caribbean Sea, bottom configuration of shallow area visible with color variation in relation to depth.
3347	8	20 18N	74 40W	0	Normal	52	2010	105	J-26	18	Vert.	GEOGRAPHY/CARTOGRAPHY: Cuba, Oriente Province, Point Maisi, Guantanamo Bay, Towns of Guantanamo and Baracoa. GEOLOGY/HYDROLOGY: Complex mountains and hills region of basement origin. AGRICULTURE: Field patterns visible along southern coast. FORESTRY: Tropical rainforests and mangrove. METEOROLOGY: Cumulus humilis, cumulus congestus. OCEANOGRAPHY: Caribbean Sea, color variations over reefs in nearshore area.
3348	8	20 17N	74 28W	70	Normal	52	2010	105	J-26	10	Vert.	GEOGRAPHY/CARTOGRAPHY: Cuba, Oriente Province, Point Maisi, Windward Passage, Town of Baracoa. GEOLOGY/HYDROLOGY: Basement complex hills and mountains. AGRICULTURE: Field patterns on east end of island. FORESTRY: Tropical rainforests. METEOROLOGY: Cumulus humilis. OCEANOGRAPHY: Caribbean Sea, no color variations visible.

A-63

* NADIR POINT OF CAMERA

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3349	Mar. 8	19 45N	73 14W	0	Normal	52	2011	105	J-27	2	Vert.	<u>GEOGRAPHY/CARTOGRAPHY</u> : Haiti, Cape A-Foux, Torture Island, Windward Passage, Gulf of Gonave, Town of Port de Paix. <u>GEOLOGY/HYDROLOGY</u> : Basement complex mountain region. <u>AGRICULTURE</u> : Small area of field patterns. <u>FORESTRY</u> : Broadleaf evergreen forests or tropical rainforest. <u>METEOROLOGY</u> : Cumulus humilis. <u>OCEANOGRAPHY</u> : Caribbean Sea, no color variations, nearshore zone very narrow.
3350	8	18 48N	72 23W	10	Normal	53	2011	105	J-27	15	Vert.	<u>GEOGRAPHY/CARTOGRAPHY</u> : Haiti, Dominican Republic, Gonave Island, St. Mark Canal, Sud Canal, City of Port au Prince, Town of St. Mark. <u>GEOLOGY/HYDROLOGY</u> : Basement complex, mountain region. <u>AGRICULTURE</u> : Some cultivation in Port au Prince area. <u>FORESTRY</u> : Broadleaf evergreen forests. <u>METEOROLOGY</u> : Cirro-cumulus, cumulus congestus, cumulus humilis. <u>OCEANOGRAPHY</u> : Caribbean Sea, nearshore zone is narrow and steep except in coves or embayments.
3351	8	18 20N	71 20W	10	Normal	53	2011	107	J-27	24	Vert.	<u>GEOGRAPHY/CARTOGRAPHY</u> : Dominican Republic, Lake Enriquillo, Capes Beata and Falso, Town of Barahona. <u>GEOLOGY/HYDROLOGY</u> : Complex mountain structure of igneous and metamorphic formations. <u>AGRICULTURE</u> : Heavy concentration of field patterns near Lake Enriquillo. <u>FORESTRY</u> : Broadleaf evergreen forests. <u>METEOROLOGY</u> : Cumulus congestus, cumulus humilis. <u>OCEANOGRAPHY</u> : Caribbean Sea, nearshore zone is narrow and steep except in coves or embayments.

* NADIR POINT OF CAMERA

A-64

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C
AS 9-22

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3352	Mar. 8	18	15N 70	58W	Normal	53	2011	107	J-27	23	Vert.	<p>GEOGRAPHY/CARTOGRAPHY: Dominican Republic, Ocean Bay, Lake Enriquilla, Towns of Barahona and Dant.</p> <p>GEOLOGY/HYDROLOGY: Complex mountain region of igneous and metamorphic formations.</p> <p>AGRICULTURE: Heavy concentration of field patterns near Lake Enriquilla.</p> <p>FORESTRY: Broadleaf evergreen forests.</p> <p>METEOROLOGY: Cumulus congestus, cumulo-nimbus, cumulus humilis.</p> <p>OCEANOGRAPHY: Caribbean Sea, nearshore zone is narrow and steep except in coves or embayments.</p>
3353	8	26	08N* 169	56E	Normal	30	2117	107		70	Obl.	<p>METEOROLOGY: Stratus, strato-cumulus, alto-cumulus, cumulo-nimbus.</p> <p>OCEANOGRAPHY: Pacific Ocean, sun glint.</p>
3354	8	26	53N* 171	55E	Normal	30	2117	107		50	Obl.	<p>METEOROLOGY: Cirrus, cumulo-nimbus, strato-cumulus, alto-cumulus.</p> <p>OCEANOGRAPHY: Pacific Ocean, sun glint.</p>
3355	8	27	37N* 173	56E	Normal	32	2118	107		90	Obl.	<p>METEOROLOGY: Strato-cumulus, alto-cumulus, cirrus.</p> <p>OCEANOGRAPHY: Pacific Ocean.</p>
3356	8	32	00N* 129	57W	Normal	40	2131	105	G-18	60	Obl.	<p>GEOGRAPHY/CARTOGRAPHY: California Coast.</p> <p>METEOROLOGY: Cumulo-nimbus with anvil, cirrus, alto-cumulus, cumulus congestus.</p> <p>OCEANOGRAPHY: Pacific Ocean, water color variation near the coast.</p>
3357	8	31	07N* 125	32W	Normal	41	2132	105	G-18	50	Obl.	<p>GEOGRAPHY/CARTOGRAPHY: United States, California, San Miguel and Santa Rosa Islands, Points Conception, Arguello, Buchon, Lebes and Pinos; Santa Lucia Range, San Rafael Mountains.</p> <p>GEOLOGY/HYDROLOGY: Complex Pacific Mountain Ranges.</p> <p>FORESTRY: Deciduous shrubform.</p> <p>METEOROLOGY: Cirrus, alto-cumulus, stratus.</p> <p>OCEANOGRAPHY: Pacific Ocean, water color variations near coastline.</p>

* NADIR POINT OF CAMERA

A-65

HANDHELD COLOR PHOTOGRAPHS MAGAZINE C AS 9-22

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	WAC No.		% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.										
3358	Mar. 8	30 04N*	121 12W	0	Normal	42	2133	105	G-18	40	Obl.		GEOGRAPHY/CARTOGRAPHY: United States, California, Salton Sea, Imperial Valley, Santa Rosa Mountains, City of San Diego, Towns of Oceanside and Tijuana. GEOLOGY/HYDROLOGY: Basin and Range Province, tertiary lacustrine beds and quaternary alluvium. AGRICULTURE: Imperial Valley, extensive cultivation. FORESTRY: Desert shrubform. METEOROLOGY: Strato-cumulus. OCEANOGRAPHY: Pacific Ocean, water color variation near coastline.
3359	8	28 51N*	116 59W	0	Normal	44	2134	105	H-22	40	Obl.		GEOGRAPHY/CARTOGRAPHY: United States, Baja California, Arizona, Imperial Valley, Colorado River Delta, Gulf of California, City of Yuma, Towns of Calexico and El Centro. GEOLOGY/HYDROLOGY: Basin and Range Province, erg plains and volcanics. AGRICULTURE: Heavy cultivation along Colorado River. FORESTRY: Desert shrubform. METEOROLOGY: Alto-cumulus. OCEANOGRAPHY: Gulf of California, water color variation extending into the Gulf from the Colorado River mouth.
3360	8	24 33N	106 53W	0	Dark	45	2136	105	H-23	0	Vert.		GEOGRAPHY/CARTOGRAPHY: Mexico, Sierra Madre Occidental, City of Culiacan. GEOLOGY/HYDROLOGY: Complex mountain region.
3361	8	24 40N	106 40W	80	Dark	45	2137	105	J-24	20	Vert.		GEOGRAPHY/CARTOGRAPHY: Mexico, Sinaloa Province, Presidio River, City of Mazatlan. GEOLOGY/HYDROLOGY: Complex mountains and consequent drainage. AGRICULTURE: Possible field patterns scattered and isolated. FORESTRY: Semi-desert shrubform. METEOROLOGY: Cirrus fibratus, strato-cumulus.
3362	8	24 53N	104 40W	0	Dark	45	2137	105	H-23	0	Obl.		GEOGRAPHY/CARTOGRAPHY: Mexico, Durango Province, Santiaguito Lagoon, Sierra Madre Occidental, Village of Ideal. GEOLOGY/HYDROLOGY: Complex and folded mountains. AGRICULTURE: Scattered field patterns. FORESTRY: Semi-desert shrubform with some dwarf conifers at higher elevations.

A-66

* NADIR POINT OF CAMERA

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C
AS 9-22

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3363	Mar. 8	23 45N	104 12W	40	Dark	45	2137	105	J-24	9	Vert.	GEOGRAPHY/CARTOGRAPHY: Mexico, Durango Province, City of Durango. GEOLOGY/HYDROLOGY: Complex mountain region. AGRICULTURE: Heavy field pattern concentration near Durango. FORESTRY: Deciduous shrubform with some dwarf conifers at higher elevations. METEOROLOGY: Cirro-cumulus.
3364	8	23 45N	103 50W	70	Dark	45	2137	105	J-24	12	Vert.	GEOGRAPHY/CARTOGRAPHY: Mexico, Durango Province, City of Durango. GEOLOGY/HYDROLOGY: Complex mountain region. AGRICULTURE: Heavy field pattern concentration near Durango. FORESTRY: Deciduous shrubform with some conifers at higher elevations. METEOROLOGY: Cirro-cumulus.
3365	8	23 40N	103 22W	80	Dark	45	2137	105	J-24	13	Vert.	GEOGRAPHY/CARTOGRAPHY: Mexico, Durango, Zacatecas Provinces, Sierra Madre Occidental. GEOLOGY/HYDROLOGY: Complex mountain region. AGRICULTURE: Large area of cultivation, distinct field patterns, color contrast. FORESTRY: Deciduous shrubform with some conifers at higher elevations. METEOROLOGY: Cirro-cumulus.
3366	8	22 43N	102 38W	30	Dark	45	2137	105	J-24	40	Vert.	GEOGRAPHY/CARTOGRAPHY: Mexico, Zacatecas Province, City of Zacatecas. GEOLOGY/HYDROLOGY: Complex mountain region. AGRICULTURE: Scattered field patterns, some highly congested areas of cultivation. FORESTRY: Deciduous shrubform with some conifers at higher elevations. METEOROLOGY: Cirro-cumulus, alto-cumulus.
3367	8	23 10N	102 08W	50	Dark	45	2138	105	J-24	37	Vert.	GEOGRAPHY/CARTOGRAPHY: Mexico, Zacatecas and San Luis Potosi Provinces, City of Zacatecas. GEOLOGY/HYDROLOGY: Complex mountain region. AGRICULTURE: Scattered areas of cultivation. FORESTRY: Deciduous shrubform with some conifers at higher elevations. METEOROLOGY: Cirro-cumulus, alto-cumulus, strato-cumulus.

A-67

* NADIR POINT OF CAMERA

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C
AS 9-22

Frame No.	Date	Principal Point		Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.								
3368	Mar. 8	23 15N	101 52W	Dark	45	2138	105	J-24	60	Vert.	GEOGRAPHY/CARTOGRAPHY: Mexico, Zacatecas and San Luis Potosi Provinces, Village of Santa Domingo. GEOLOGY/HYDROLOGY: Complex mountain regions. AGRICULTURE: Isolated, irregular shaped, field patterns. FORESTRY: Deciduous shrubform with some conifers at higher elevations. METEOROLOGY: Cirro-cumulus, strato-cumulus, cirrus fibratus.
3369	8	15 58N	91 47W	Dark	45	2141	105	K-25 J-25	12	Obl.	GEOGRAPHY/CARTOGRAPHY: Guatemala, Seirra Madre, Guatemala City. GEOLOGY/HYDROLOGY: Complex and folded mountain region. AGRICULTURE: Isolated field patterns. FORESTRY: Mixed deciduous and evergreen forest, primarily broadleaf evergreen. Numerous smoke plumes. METEOROLOGY: Cumulo-nimbus, cumulus congestus, haze or smoke.
3370	8	15 51N	90 35W	Dark	45	2141	105	K-25 J-25	10	Obl.	GEOGRAPHY/CARTOGRAPHY: Guatemala, Mountain of The Mines, Salinas and Locatum River. GEOLOGY/HYDROLOGY: Folded and complex mountain region. AGRICULTURE: Isolated field patterns. FORESTRY: Mixed deciduous and evergreen, primarily broadleaf evergreen, numerous smoke plumes. METEOROLOGY: Cumulo-nimbus, cumulus congestus, smoke or haze.
3371	8	14 28N	89 35W	Dark	45	2141	105	K-25	15	Obl.	GEOGRAPHY/CARTOGRAPHY: Guatemala, El Salvador, Honduras, Point Remedios, City of San Salvador. GEOLOGY/HYDROLOGY: Complex mountain region. AGRICULTURE: Isolated field patterns. FORESTRY: Mixed deciduous and evergreen changing to pure broadleaf evergreen inland, numerous smoke plumes. METEOROLOGY: Cumulus congestus, smoke or haze. OCEANOGRAPHY: Pacific Ocean.
3372	8	14 42N	87 58W	Dark	45	2141	105	K-25	30	Vert.	GEOGRAPHY/CARTOGRAPHY: Honduras, Lake Yojoa, Uluu River. GEOLOGY/HYDROLOGY: Complex mountain region. AGRICULTURE: Field patterns evident along river valley. FORESTRY: Mixed deciduous and evergreen forests; numerous smoke plumes. METEOROLOGY: Cumulus congestus, cumulus humilis, smoke or haze.

* NADIR POINT OF CAMERA

A-68

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C
AS 9-22

Frame No.	Date	Principal Point		Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.								
3373	Mar. 8	12 57N	87 58W	Normal	45	2142	105	K-25	30	Obl.	GEOGRAPHY/CARTOGRAPHY: El Salvador, Honduras, Nicaragua, Gulf of Fonseca, Points Ampala and Coaguila, Bay of San Lorenzo, City of San Miguel. GEOLOGY/HYDROLOGY: Rugged plains and elevated plateau region. AGRICULTURE: Scattered isolated field patterns. FORESTRY: Mixed deciduous and evergreen forests with coastal grasses. METEOROLOGY: Cumulus congestus, cirrus fibratus. OCEANOGRAPHY: Pacific Ocean, Gulf of Fonseca, water depth variations within the Gulf of Fonseca.
3374	8	06 12N*	73 56W	Normal	20	2146	121		95	Vert.	METEOROLOGY: Large cumulo-nimbus, cirrus spissatus, cumulus congestus.
3375	8	00 34N*	64 28W	Normal	11	2149	120		90	Vert.	METEOROLOGY: Cumulo-nimbus with anvils, cirrus, cumulus congestus.
3376	8	02 50S*	61 20W	Normal	8	2150	120		100	Vert.	METEOROLOGY: cumulo-nimbus with anvil, cumulus congestus.
3377	8	06 13S*	56 36W	Normal	4	2151	119		100	Obl.	METEOROLOGY: Strato-cumulus, cumulo-nimbus.
3378	9	16 15N	98 05W	Dark	5	1319	100	J-24	18	Vert.	GEOGRAPHY/CARTOGRAPHY: Mexico, Oaxaca Province, Santa Vela del Mar, Verde River, Pastoria Lagoon, Village of Tututepec. METEOROLOGY: Cumulus humilis.
3379	9	16 23N	95 53W	Dark	8	1320	99	J-25	19	Vert.	GEOGRAPHY/CARTOGRAPHY: Mexico, Oaxaca Province, Sanabria River, Village of San Juan Lajarcia. GEOLOGY/HYDROLOGY: Complex mountains. FORESTRY: Forest fires, mixed deciduous and evergreen forests. METEOROLOGY: Strato-cumulus, smoke
3380	9	16 30N	96 25W	Dark	10	1320	99	J-25	5	Vert.	GEOGRAPHY/CARTOGRAPHY: Mexico, Oaxaca Province, Villages of Ejutla and San Juan Lajarcia. GEOLOGY/HYDROLOGY: Complex mountains. FORESTRY: Forest fires, mixed deciduous and evergreen forests. METEOROLOGY: Strato-cumulus.

* NADIR POINT OF CAMERA

A-69

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C
AS 9-22

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3381	Mar. 9	16	48N 95 32W	70	Dark	12	1320	99	J-25	50	Vert.	GEOGRAPHY/CARTOGRAPHY: Mexico, Oaxaca Province. GEOLOGY/HYDROLOGY: Complex mountains. FORESTRY: Forest fires, mixed deciduous and evergreen forests. METEOROLOGY: Strato-cumulus.
3382	9	21	22N 87 25W	0	Dark	15	1322	98	J-25	45	Obl.	GEOGRAPHY/CARTOGRAPHY: Mexico, Yucatan Peninsula, Quintana Roo Province, Contoy Island, Village of Puerto Juarez. GEOLOGY/HYDROLOGY: Low plains region. METEOROLOGY: Cirro-cumulus, alto-cumulus. OCEANOGRAPHY: Gulf of Mexico, sun glint.
3383	9	21	15N 86 40N	80	Dark	17	1322	98	J-25	55	Obl.	GEOGRAPHY/CARTOGRAPHY: Mexico, Yucatan Peninsula, Quintana Roo Province, Contoy Island, Village of Puerto Juarez. GEOLOGY/HYDROLOGY: Low plains region. METEOROLOGY: Cirro-cumulus, alto-cumulus. OCEANOGRAPHY: Gulf of Mexico, sun glint.
3384	9	20	56N 86 40W	80	Dark	18	1322	98	J-25	55	Obl.	GEOGRAPHY/CARTOGRAPHY: Mexico, Yucatan Peninsula, Quintana Roo Province, Contoy Island, Village of Puerto Juarez. GEOLOGY/HYDROLOGY: Low plains region. METEOROLOGY: Cirro-cumulus, alto-cumulus. OCEANOGRAPHY: Gulf of Mexico, nearshore zone shows depth variations.
3385	9	24	19N 82 15W	0	Dark	21	1324	97	H-25	90	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Florida Keys, Marquesas Keys, Boca Grande Key. GEOLOGY/HYDROLOGY: Low plains region. METEOROLOGY: Alto-cumulus, cumulus congestus, cumulonimbus. OCEANOGRAPHY: Gulf of Mexico, some current patterns visible near island.
3386	9	20	46N* 11 42W	0	Normal	50	1340	90	G-1	15	Obl.	GEOGRAPHY/CARTOGRAPHY: Africa, Morocco, Atlas Mountains, Cities of El Jariida, Casablanca, Rabat, and Meknes. GEOLOGY/HYDROLOGY: Complex plateau and coastal plain. AGRICULTURE: Isolated field patterns. METEOROLOGY: Cumulus humilis, cirrus fibratus, cumulus congestus.

* NADIR POINT OF CAMERA

A-70

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C
AS 9-22

Frame No.	Date	Principal Point		Image Evaluation	Percent Overlap	Sun Elevation	GMT	Air- tude n. mi.	ONC WAC No.	% Cloud Cover.	View- ing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3387	Var. 9	29 25N	06 38W	Normal	0	50	1341	90	H-1	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Africa, Morocco, Algeria, Village of El Karait. GEOLOGY/HYDROLOGY: Folded sedimentary mountains and elevated plateau region.
3388	9	28 58N	03 37W	Normal	0	50	1342	90	H-2	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Africa, Algeria, Erg Er Raoui, Village of Tebelbala. GEOLOGY/HYDROLOGY: Folded mountains and elevated plateau erg region.
3389	9	26 45N	00 30E	Normal	0	49	1343	90	H-2	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Africa, Algeria, Erg Chech, Villages of Borj Rene Estienne and Azarafil. GEOLOGY/HYDROLOGY: Elevated plateau of folded formations.
3390	9	26 23N	01 57E	Normal	0	49	1343	90	H-2	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Africa, Algeria, Tidikelt, Villages of Hassi El Bachir and Sebkhia Wakerthane. GEOLOGY/HYDROLOGY: Folded formations of an elevated plateau.
3391	9	26 10N	02 37E	Normal	50	49	1343	90	H-2	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Africa, Algeria, area south of Ain Salah. GEOLOGY/HYDROLOGY: Folded formations of a plateau and erg region.
3392	9	25 43N	03 22E	Normal	40	48	1344	90	H-2	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Africa, Algeria, Abnet Mountains, Villages of Tadjemout and Arak. GEOLOGY/HYDROLOGY: Complex and folded mountains region.
3393	9	25 31N	04 02E	Normal	50	48	1344	90	H-2	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Africa, Algeria, Abnet Mountains, Villages of Tadjemout and Arak. GEOLOGY/HYDROLOGY: Complex and folded mountain.
3394	9	25 07N	05 35E	Normal	10	48	1344	90	H-3	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Africa, Algeria, Village of Anou Heniet. GEOLOGY/HYDROLOGY: Complex mountain and erg region.
3395	25	25 07N	05 35E	Normal	10	48	1344	90	H-3	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Africa, Algeria, Ahaggar Mountains, Garat El Djenoupeak, Village of Qinet Passi. GEOLOGY/HYDROLOGY: Complex mountains and erg region.

A-71

* NADIR POINT OF CAMERA

HANDHELD COLOR PHOTOGRAPHS

MAGAZINE C

AS 9-22

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC		% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.						Altitude n. mi.	WAC			
3396	Mar. 9	25 03N	06 10E	50	Normal	47	1344	90	H-3	0	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Africa, Algeria, Village of Toummine. GEOLOGY/HYDROLOGY: Complex and volcanic mountain with surrounding erg region.
3397	9	26 20N	07 05E	0	Normal	47	1344	90	H-3	0	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Africa, Algeria, Esacul Mellene Mountains, Village of Issoum W. Iferrine. GEOLOGY/HYDROLOGY: Complex and sedimentary mountains with erg regions.
3398	9	24 35N*	06 53E	0	Normal	47	1344	90		0	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Algeria, Ahaggar Mountains. GEOLOGY/HYDROLOGY: Complex fractured mountain and erg complex.
3399	9	24 45N	10 20E	0	Normal	47	1345	90	H-3	0	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Africa, Algeria, Libya, Niger, Moroccan Walled Mountains, Villages of Chat, Fouet, Al Barkat and Saraklas. GEOLOGY/HYDROLOGY: Complex mountains and erg region.
3400	9	24 51N	11 50E	0	Normal	46	1345	90	H-3	0	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Africa, Algeria, Libya, Niger, Mosseri Merit, Ighren Harraq. GEOLOGY/HYDROLOGY: Complex plateau and erg region.
3401	9	23 45N*	08 49E	10	Normal	45	1345	90	J-4	0	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Africa, Niger, Libya, Mangueni Plateau. GEOLOGY/HYDROLOGY: Complex Hamada Plateau with dissected longitudinal dunes.
3402	9	22 47N*	09 40E	0	Normal	46	1345	90		1	1	Vert.	GEOGRAPHY/CARTOGRAPHY: Africa, Niger, Djado Plateau, Villages of Djado and Chirfa. GEOLOGY/HYDROLOGY: Hamada Plateau and erg region. METEOROLOGY: Cumulus.
3403	9	20 25N	17 15E	0	Normal	45	1346	90	J-4	30	30	Vert.	GEOGRAPHY/CARTOGRAPHY: Africa, Chad, Tibesti Mountains, Villages of Zouar, Sherda and Edguer. GEOLOGY/HYDROLOGY: Complex plateau region of sedimentary beds. METEOROLOGY: Alto-cumulus, cirro-cumulus.
3404	9	19 05N	19 10E	0	Normal	45	1348	90	J-4	5	5	Vert.	GEOGRAPHY/CARTOGRAPHY: Africa, Chad, Tibesti Mountains, East slope of Emi Kousal, Villages of Guero Aro Kada. GEOLOGY/HYDROLOGY: Complex plateau and Hamada, erg region. METEOROLOGY: Cirrus.

* HADIR POINT OF CAMERA

A-72

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C
FS 9-22

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3405	Mar. 9	23 50N	104 23W	0	Dark	10	1451	97	J-24	48	Vert.	GEOGRAPHY/CARTOGRAPHY: Mexico, Durango Province, Sierra Madre Occidental, City of Durango. GEOLOGY/HYDROLOGY: Complex mountains. AGRICULTURE: Field patterns near Durango. FORESTRY: Scattered deciduous shrubform, with some conifers at higher elevations. METEOROLOGY: Cirrus uncinus, cirro-cumulus.
3406	9	26 38N	99 20W	0	Dark	24	1453	96	H-23	57	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Mexico, Texas, Rio Grande, Falcon Reservoir. GEOLOGY/HYDROLOGY: Complex mountains. AGRICULTURE: Field patterns visible along Rio Grande River. FORESTRY: Scattered deciduous shrubform. METEOROLOGY: Cirrus uncinus.
3407	9	26 45N	97 28W	0	Dark	25	1454	95	H-23	35	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Texas, Padre Island, Madre Lagoon, Baffin and Alazan Bays, Towns of Kingville and Riviera. GEOLOGY/HYDROLOGY: Coastal plains, lagoon and sandbars along shoreline. AGRICULTURE: Small, irregular shaped field patterns. FORESTRY: Deciduous shrubform with some evergreen shrubform. METEOROLOGY: Alto-stratus, cirrus uncinus.
3408	9	20 30N	17 09W	0	Normal	50	1523	92	J-1	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Africa, Spanish Sahara, Mauritania, Senegal, Capes Harbas, Corbiero, Blanc, and Timiris, Azefal Dunes, Akchar Desert, Towns of Port Etienne, Iouik, El Memhar, Nounkchott and St. Louis. GEOLOGY/HYDROLOGY: Erg coastal plain. OCEANOGRAPHY: Atlantic Ocean, terrigenous sediments prominent in nearshore and offshore zones.
3409	9	23 40N	16 30W	90	Normal	50	1523	92	J-1	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Africa, Mauritania, Spanish Sahara, Senegal, Capes Blanc and Timiris, Levrier Bay, Azefal Dunes, Akchar and Trarza Deserts, Towns of Port Etienne, El Memhar, and Nounkchott. GEOLOGY/HYDROLOGY: Erg coastal plain. OCEANOGRAPHY: Atlantic Ocean, terrigenous sediments are prominent in nearshore and offshore zones.

* NADIR POINT OF CAMERA

A-73

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun. Elevation	GMT	Altitude n. mi.	ONC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3410	Mar. 9	23 10N	15 25W	90	Normal	50	1523	92	J-1	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Africa, Mauritania, Senegal, Capes Blanc and Timiris, Asefal Dunes, Akchar and Trarza Deserts, Dhar Adrar Mountains, Towns of Fort Etienne, El Membar, Houkchott, Atar, Tentana and Talouza. GEOLOGY/HYDROLOGY: Dry coastal plain. OCEANOGRAPHY: Atlantic Ocean, terrigenous sediments extends into offshore zone.
3411	9	18 50N	13 07W	0	Normal	50	1524	94	J-1	15	Obl.	GEOGRAPHY/CARTOGRAPHY: Africa, Mauritania, Dhar Adrar Mountains, Quarane Desert, Towns of Atar, Oujelt, Chingvetti and Tentana. GEOLOGY/HYDROLOGY: Hamada complex plateau and erg region. METEOROLOGY: Star-to-cumulus.
3412	9	21 13N	11 45W	20	Normal	50	1524	94	J-2	12	Obl.	GEOGRAPHY/CARTOGRAPHY: Africa, Mauritania, Dhar Adrar Mountains, Karkier Desert, Village of Et Tellia. GEOLOGY/HYDROLOGY: Complex plateau, dome, and erg interior elevated desert. METEOROLOGY: Alto-stratus.
3413	9	29 55N	88 12W	0	Normal	50	1636	105	H-24	50	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Florida, Alabama, Mobile Bay, Choctawhatchee Bay, Cities of Mobile and Pensacola, Town of Fort Walton Beach. GEOLOGY/HYDROLOGY: Coastal plain. AGRICULTURE: Heavy cultivation, small, irregular shaped field patterns. FORESTRY: Mixed pine/hardwood forests, pure stands of both. METEOROLOGY: Cirrus, alto-cumulus. OCEANOGRAPHY: Atlantic Ocean, some sedimentation visible in nearshore zone.
3414	9	29 40N	85 20W	10	Normal	50	1636	105	H-24	60	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Alabama, Florida, Georgia, Choctawhatchee and Apalachee Bays, Cape San Blas, Towns of Fort Walton Beach, Panama City, and Apalachicola, City of Tallahassee. GEOLOGY/HYDROLOGY: Coastal plain. AGRICULTURE: Heavy field pattern display. FORESTRY: Mixed pine hardwood with pure stands of each. METEOROLOGY: Cirrus, alto-cumulus, cirrus-stratus.

* NADIR POINT OF CAMERA

A-74

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C

AS 9-22

Frame No.	Date	Principal Point:		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3415	Mar. 9	29 30N	81 20W	0	Dark	53	1636	104	H-25	40	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Georgia, Florida, Sapelo and Cumberland Islands, St. Johns River, Cities of Brunswick and Jacksonville, Towns of Fernandina Beach and Waycross. GEOLOGY/HYDROLOGY: Coastal plain region. AGRICULTURE: Scattered, but heavy field pattern display. FORESTRY: Mixed pine hardwood forests with pure stands of each. METEOROLOGY: Alto-cumulus, cirrus, cumulus congestus. OCEANOGRAPHY: Atlantic Ocean, sediments visible in nearshore zone.
3416	9	33 46N	81 00W	80	Dark	52	1637	104	H-25	45	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Georgia, Florida, Little Tybee Oseabaw, St. Catherine's, Sapelo, and Cumberland Islands, Cities of Savannah, Brunswick and Jacksonville. GEOLOGY/HYDROLOGY: Coastal plain and compound shoreline. AGRICULTURE: Scattered, irregular shaped field patterns. FORESTRY: Mixed pine hardwood forests with pure stands of each. METEOROLOGY: Alto-cumulus, cumulus congestus. OCEANOGRAPHY: Atlantic Ocean, sediments entering nearshore zone indicate no longshore current activity.
3417	9	33 41N	80 00W	50	Normal	52	1637	104	H-25	44	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Georgia, Florida, South Carolina, Hilton Head, St. Catherine's, and Cumberland Islands, St. Helena and Port Royal Sounds, Cities of Beaufort, Savannah and Brunswick. GEOLOGY/HYDROLOGY: Coastal plain and compound shoreline. AGRICULTURE: Scattered field patterns. FORESTRY: Mixed pine hardwood forests with pure stands of each. METEOROLOGY: Alto-cumulus. OCEANOGRAPHY: Atlantic Ocean, sediment patterns in nearshore zone indicate no longshore current activity.

* NADIR POINT OF CAMERA

A-75

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3418	Mar 9	33 39N*	79 00W	80	Normal	52	1637	104	H-25	50	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Georgia, South Carolina, St. Helena, and Port Royal Sounds, Cities of Charleston, Beaufort, Savannah and Brunswick. GEOLOGY/HYDROLOGY: Coastal plain and compound shoreline. AGRICULTURE: Scattered field patterns. FORESTRY: Mixed pine/hardwood forest with pure stands of each. METEOROLOGY: Alto-cumulus. OCEANOGRAPHY: Atlantic Ocean, sedimentation patterns extend into offshore zone indicating no longshore current activity.
3419	9	33 33N*	78 00W	50	Dark	52	1638	104	H-25	50	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Georgia, South Carolina, Cities of Charleston, Beaufort, and Savannah. GEOLOGY/HYDROLOGY: Coastal plain and compound shoreline. AGRICULTURE: Scattered field patterns. FORESTRY: Mixed pine/hardwood forests with pure stands of each. METEOROLOGY: Alto-cumulus. OCEANOGRAPHY: Atlantic Ocean, water tonal differences visible in offshore zone.
3420	9	33 28N*	75 50W	40	Normal	52	1638	104	G-21	70	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, South Carolina, City of Charleston, Towns of Georgetown and Myrtle Beach. GEOLOGY/HYDROLOGY: Coastal plain region. AGRICULTURE: Scattered field patterns. FORESTRY: Mixed pine/hardwood forests with pure stands of each. METEOROLOGY: Alto-cumulus, cumulus congestus. OCEANOGRAPHY: Atlantic Ocean, water tonal differences visible in offshore zone.
3421	9	33 18N*	73 45W	0	Normal	52	1638	104	G-21	80	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, South Carolina Coast. GEOLOGY/HYDROLOGY: Coastal plain. METEOROLOGY: Alto-cumulus, cumulus congestus.
3422	9											Inside spacecraft.

* NADIR POINT OF CAMERA

A-76

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE A
AS 9-22

Frame No.	Date	Principal Point Latitude deg. min.	Longitude deg. min.	Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
	Mar											Inside spacecraft
3423	9											
3424	9			0	Normal					15	Obl.	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean. METEOROLOGY: Alto-cumulus. OCEANOGRAPHY: Sun glint.
3425	9			80	Normal					15	Obl.	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean. METEOROLOGY: Alto-cumulus. OCEANOGRAPHY: Sun glint.
3426	9	15 00N	24 34W	0	Normal	40	1650	101	K-0	8	Vert.	GEOGRAPHY/CARTOGRAPHY: Cape Verde Islands, Fogo, Brava and Sao Tiago Islands, Villages of Sao Filipe and Tarrafal. GEOLOGY/HYDROLOGY: Volcanic islands. METEOROLOGY: Alto-cumulus, cumulus congestus. OCEANOGRAPHY: Atlantic Ocean, sun glint, some swell and current patterns visible adjacent to the islands.
3427	9	16 10N	22 58W	0	Normal	40	1650	101	K-0	7	Vert.	GEOGRAPHY/CARTOGRAPHY: Cape Verde Islands, Boa Vista and Sal Islands, Villages of Curral Velho, Sal Rei, and Santa Maria. GEOLOGY/HYDROLOGY: Volcanic islands. METEOROLOGY: Alto-cumulus. OCEANOGRAPHY: Atlantic Ocean, some depth variations visible in nearshore zone of the island.
3428	9	16 44N	23 02W	50	Normal	40	1650	101	K-0	10	Vert.	GEOGRAPHY/CARTOGRAPHY: Cape Verde Islands, Sal and Boa Vista Islands, Villages of Palmeira, Pedra Lume, Santa Maria, and Sal Rei. GEOLOGY/HYDROLOGY: Volcanic islands. METEOROLOGY: Alto-cumulus. OCEANOGRAPHY: Atlantic Ocean, some depth variations visible in the nearshore zone of the islands.
3429	9	15 17N	23 17W	0	Normal	40	1651	101	K-0	20	Vert.	GEOGRAPHY/CARTOGRAPHY: Cape Verde Islands, Sao Tiago, Maio, and Fogo Islands, Villages of Santo Antonio, Porto Inglês, Sao Tiago, and Praia. GEOLOGY/HYDROLOGY: Volcanic islands. METEOROLOGY: Alto-cumulus. OCEANOGRAPHY: Atlantic Ocean, some strong current patterns visible in the sun glint area.

* NADIR POINT OF CAMERA

A-77

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C
AS 9-22

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	CNC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3430	Mar 9			0	Normal						Obl.	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean. NETEPOLOGY: Alto-cumulus. OCEANOGRAPHY: Possible swell patterns visible within the sun glint area.
3431	9			50	Normal						Obl.	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean. NETEPOLOGY: Alto-cumulus. OCEANOGRAPHY: Possible swell patterns visible in the sun glint area.
3432	9	15 05N	24 15W	0	Normal	40	1552	102	K-0		Obl.	GEOGRAPHY/CARTOGRAPHY: Cape Verde Islands, Brava, Fogo, Sao Tiago and Maio Islands. GEOLOGY/HYDROLOGY: Volcanic chain of islands. NETEPOLOGY: Alto-cumulus. OCEANOGRAPHY: Atlantic Ocean, strong current patterns visible on leeward side of the islands.
3433	9	33 57N	120 20W	0	Normal	42	1301	105	G-18	30	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, California, Santa Barbara Channel, San Miguel, Santa Rosa and Santa Cruz Islands, Santa Ynez Mountains, Cities of Santa Barbara and Ventura. GEOLOGY/HYDROLOGY: Complex mountains and coastal plain. FORESTRY: Broadleaf evergreen shrubform. NETEPOLOGY: Cirro-cumulus, alto-cumulus, cumulus congestus. OCEANOGRAPHY: Pacific Ocean, sediments from population centers visible in nearshore zone.
3434	9	33 12N	118 53W	80	Normal	42	1801	105	G-18	39	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, California, San Pedro Channel, San Nicolas, Santa Catalina, and San Clemente Islands, Gulf of Santa Catalina, Cities of Los Angeles and Long Beach. GEOLOGY/HYDROLOGY: Complex mountains and coastal plain. FORESTRY: Broadleaf evergreen shrubform. NETEPOLOGY: Cirro-cumulus, alto-cumulus, cumulus humilis, cumulus congestus. OCEANOGRAPHY: Pacific Ocean, sediments from population centers visible in nearshore zone.

* NADIR POINT OF CAMERA

A-78

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C
AS 9-22

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3435	Mar 9	33 33N	118 25W	70	Normal	42	1801	105	G-18	42	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, California, San Pedro Channel, Santa Catalina, and San Clemente Islands, Los Angeles Metropolitan Area. GEOLOGY/HYDROLOGY: Complex mountains and coastal plain. FORESTRY: Broadleaf evergreen shrubform. METEOROLOGY: Nimbo-stratus, cumulus congestus, cumulus humilis, cirro-cumulus, cumulo-nimbus. OCEANOGRAPHY: Pacific Ocean, sediments from population centers are visible in the nearshore zones.
3436	9	33 40N	118 18W	0	Normal	42	1801	105	G-18	43	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, California, Santa Catalina Island, Los Angeles Metropolitan Area, Town of Oceanside. GEOLOGY/HYDROLOGY: Complex mountains and coastal plain. FORESTRY: Broadleaf evergreen shrubform. METEOROLOGY: Nimbo-stratus, cumulus humilis, cumulus congestus, cumulo-nimbus. OCEANOGRAPHY: Pacific Ocean, sediments from population centers visible in the nearshore zone.
3437	9	33 10N	116 05W	0	Normal	43	1802	106	G-18	50	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Mexico, California, Salton Sea, Imperial and Coachella Valleys, Santa Rosa Mountains, Towns of Indio, Brawley, El Centro and Mexicali. GEOLOGY/HYDROLOGY: Complex ranges and quaternary alluvium. AGRICULTURE: Irrigated farming in areas adjacent to the Salton Sea. FORESTRY: Scattered desert shrubforms. METEOROLOGY: Cumulo-nimbus, alto-cumulus, cumulus congestus.
3438	9	35 13N	115 08W	70	Normal	41	1802	106	G-18	82	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Arizona, Nevada, Utah, Lake Mead, Great Basin Mountain Ranges, Colorado River, City of Las Vegas. GEOLOGY/HYDROLOGY: ?-in and range. METEOROLOGY: Strato-cumulus, alto-stratus, snow cover in mountain and high plateau areas.

* NADIR POINT OF CAMERA

A-79

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C
AS 9-22

Frame No.	Date	Principal Point Latitude deg. min.	Principal Point Longitude deg. min.	Percent Overlap	Image Evaluation	Sun Elevation	GMT	Anti- tude n. mil.	CNC WAC No.	% Cloud Cover	View- ing Mode	Description
3439	Mar 9	36 28N	114 02W	50	Normal	41	1802	106	G-18	93	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Nevada, Arizona, Utah, Lake Mead, Colorado River, Coconino Plateau, Great Basin Mountain Ranges, City of Las Vegas, Oblique view of Utah and Great Salt Lakes. GEOLOGY/HYDROLOGY: Basin and Range. METEOROLOGY: Strato-cumulus, alto-stratus, snow cover in mountain and high plateau areas, cirrus.
3440	9	33 19N	116 29W	50	Normal	45	1802	106	G-19	90	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Arizona, Utah, Grand Canyon, Lake Powell, Coconino Plateau, Oblique view of Utah and Great Salt Lakes and Uinta Mountains. GEOLOGY/HYDROLOGY: Complex mountains and Basin and Range. METEOROLOGY: Strato-cumulus, alto-stratus, snow cover in mountain and high plateau areas, cirrus.
3441	9	33 35N	112 16N	0	Normal	46	1804	106	G-19	37	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Arizona, Phoenix Metropolitan Area. GEOLOGY/HYDROLOGY: Basin and Range Province. AGRICULTURE: Heavy concentration of field patterns. FLORA: Desert shrubform. METEOROLOGY: Strato-cumulus, alto-cumulus.
3442	9	36 43N	111 27W	10	Normal	45	1804	106	G-18	89	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Arizona, Utah, Colorado, Colorado Plateau, Lake Powell, oblique view of Utah and Great Salt Lakes and Uinta Mountains. GEOLOGY/HYDROLOGY: Complex mountains and, Basin and Range Province. METEOROLOGY: Cirrus spissatus, alto-stratus, strato-cumulus.
3443	9	33 44N	109 33W	0	Normal	45	1804	106	G-19	85	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Arizona, Utah, Colorado, Colorado Plateau, San Juan Mountains. GEOLOGY/HYDROLOGY: Complex mountains, and Basin and Range Province. METEOROLOGY: Strato-cumulus, cirrus spissatus, snow cover in mountain and high plateau areas.

* NADIR POINT OF CAMERA

A-80

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C
AS 9-22

Frame No.	Date	Principal Point		Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.								
3435	Mar 9	33 33N	118 25W	Normal	42	1801	105	G-18	42	Vert.	<u>GEOGRAPHY/CARTOGRAPHY</u> : United States, California, San Pedro Channel, Santa Catalina, and San Clemente Islands, Los Angeles Metropolitan Area. <u>GEOLOGY/HYDROLOGY</u> : Complex mountains and coastal plain. <u>FORESTRY</u> : Broadleaf evergreen shrubform. <u>METEOROLOGY</u> : Nimbus-stratus, cumulus congestus, cumulus humilis, cirro-cumulus, cumulo-nimbus. <u>OCEANOGRAPHY</u> : Pacific Ocean, sediments from population centers are visible in the nearshore zones.
3436	9	33 40N	118 18W	Normal	42	1801	105	G-18	43	Vert.	<u>GEOGRAPHY/CARTOGRAPHY</u> : United States, California, Santa Catalina Island, Los Angeles Metropolitan Area, Town of Occunside. <u>GEOLOGY/HYDROLOGY</u> : Complex mountains and coastal plain. <u>FORESTRY</u> : Broadleaf evergreen shrubform. <u>METEOROLOGY</u> : Nimbus-stratus, cumulus humilis, cumulus congestus, cumulo-nimbus. <u>OCEANOGRAPHY</u> : Pacific Ocean, sediments from population centers visible in the nearshore zone.
3437	9	33 10N	116 05W	Normal	43	1802	106	G-18	50	Vert.	<u>GEOGRAPHY/CARTOGRAPHY</u> : United States, Mexico, California, Salton Sea, Imperial and Coachella Valleys, Santa Rosa Mountains, Towns of Indio, Brawley, El Centro and Mexicali. <u>GEOLOGY/HYDROLOGY</u> : Complex ranges and quaternary alluvium. <u>AGRICULTURE</u> : Irrigated farming in areas adjacent to the Salton Sea. <u>FORESTRY</u> : Scattered desert shrubforms. <u>METEOROLOGY</u> : Cumulo-nimbus, alto-cumulus, cumulus congestus.
3438	9	35 13N	115 08W	Normal	41	1802	106	G-18	82	Obl.	<u>GEOGRAPHY/CARTOGRAPHY</u> : United States, Arizona, Nevada, Utah, Lake Mead, Great Basin Mountain Ranges, Colorado River, City of Las Vegas. <u>GEOLOGY/HYDROLOGY</u> : Basin and range. <u>METEOROLOGY</u> : Strato cumulus, alto-stratus, snow cover in mountain and high plateau areas.

* NADIR POINT OF CAMERA

A-79

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C
AS 9-22

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude in mi.	DNC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3439	Mar 9	36 28N	114 02W	50	Normal	41	1802	106	G-18	93	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Nevada, Arizona, Utah, Lake Mead, Colorado River, Colorado Plateau, Great Basin Mountain Ranges, City of Las Vegas, Oblique view of Utah and Great Salt Lakes. GEOLOGY/HYDROLOGY: Basin and Range. METEOROLOGY: Strato-cumulus, alto-stratus, snow cover in mountain and high plateau areas, cirrus.
3440	9	33 19N	116 29W	50	Normal	45	1802	106	G-19	90	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Arizona, Utah, Grand Canyon, Lake Powell, Coconino Plateau, Oblique view of Utah and Great Salt Lakes and Uinta Mountains. GEOLOGY/HYDROLOGY: Complex mountains and Basin and Range. METEOROLOGY: Strato-cumulus, alto-stratus, snow cover in mountain and high plateau areas, cirrus.
3441	9	33 35N	112 16N	0	Normal	46	1804	106	G-19	37	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Arizona, Phoenix Metropolitan Area. GEOLOGY/HYDROLOGY: Basin and Range Province. AGRICULTURE: Heavy concentration of field patterns. FORESTRY: Desert shrubform. METEOROLOGY: Strato-cumulus, alto-cumulus.
3442	9	36 43N	111 27W	10	Normal	45	1804	106	G-18	88	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Arizona, Utah, Colorado, Colorado Plateau, Lake Powell, oblique view of Utah and Great Salt Lakes and Uinta Mountains. GEOLOGY/HYDROLOGY: Complex mountains and, Basin and Range Province. METEOROLOGY: Cirrus spissatus, alto-stratus, strato-cumulus.
3443	9	33 44N	109 33W	0	Normal	45	1804	106	G-19	85	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Arizona, Utah, Colorado, Colorado Plateau, San Juan Mountains. GEOLOGY/HYDROLOGY: Complex mountains, and Basin and Range Province. METEOROLOGY: Strato-cumulus, cirrus spissatus, snow cover in mountain and high plateau areas.

* NADIR POINT OF CAMERA

A-80

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C

AS 9-22

Frame No.	Date	Position		Percent Overlap	Image Eval- ation	Sun Elev. ation	GMT	Alt- tude n. mi.	ONC WAC No.	% Cloud Cover	View- ing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3448	Mar 9	33	50W 105 23W	0	Normal	49	1805	105	C-19	27	Vert.	<u>GEOGRAPHY/CARTOGRAPHY:</u> United States, New Mexico, Sacramento Mountains, Rio Grande River, Capitan Peak. <u>GEOLOGY/HYDROLOGY:</u> Basin and Range Province, quaternary alluvium, plains region. <u>AGRICULTURE:</u> Field patterns visible near Rockwell, along Pecos River. <u>FORESTRY:</u> Desert shrubform with mixed conifers at higher elevations. <u>METEOROLOGY:</u> Cumulus humilis, snow cover in higher elevations of mountains.
3449	9	33	20W 104 37W	60	Normal	50	1805	105	C-19	6	Vert.	<u>GEOGRAPHY/CARTOGRAPHY:</u> United States, New Mexico, Pecos and Rio Grande Rivers, Capitan Peak, Town of Rockwell. <u>GEOLOGY/HYDROLOGY:</u> Great Plains province and limestone plateau caprock platform. <u>AGRICULTURE:</u> Heavy concentration of field patterns along Pecos River. <u>FORESTRY:</u> Desert, shrubform with conifers at higher elevations. <u>METEOROLOGY:</u> Cirro-cumulus, snow cover at Capitan Peak.
3450	9	33	46W 104 53W	0	Normal	50	1805	105	C-19	70	Obt.	<u>GEOGRAPHY/CARTOGRAPHY:</u> United States, View looking north from New Mexico, and Texas into Colorado, Oklahoma, and Kansas, Sangre de Cristo Moun. Ins, Setecado Plains, High Plains, City of Pueblo. <u>GEOLOGY/HYDROLOGY:</u> Central Plains region. <u>AGRICULTURE:</u> Range lands. <u>FORESTRY:</u> Desert shrubform with conifers at higher elevations. <u>METEOROLOGY:</u> Cumulus humilis, also-cumulus, snow cover in mountain areas and High Plains region.

* NADIR POINT OF CAMERA

A-82

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C
AS 9-22

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3444	9 Mar	35 27N	107 23W	90	Normal	47	1804	106	G-19	86	Obl.	<u>GEOGRAPHY/CARTOGRAPHY</u> : United States, New Mexico, Rio Grande Valley, Manzano, Sandia, and Jemez Mountains, Cities of Albuquerque, and Santa Fe. <u>GEOLOGY/HYDROLOGY</u> : Quaternary alluvium basin deposit. <u>AGRICULTURE</u> : Field patterns along Rio Grande River. <u>FORESTRY</u> : Desert shrubform, mixed deciduous and evergreen at higher elevations. <u>METEOROLOGY</u> : Cirro-stratus, strato-cumulus.
3445	9	34 55N	107 09W	0	Normal	47	1804	106	G-19	59	Obl.	<u>GEOGRAPHY/CARTOGRAPHY</u> : United States, New Mexico, Rio Grande Valley, Manzano, Sandia, and Jemez Mountains, Cities of Albuquerque and Santa Fe. <u>GEOLOGY/HYDROLOGY</u> : Quaternary alluvium basin deposit. <u>AGRICULTURE</u> : Field patterns along Rio Grande River. <u>FORESTRY</u> : Desert shrubform with mixed conifers at higher elevations. <u>METEOROLOGY</u> : Cirro-stratus, strato-cumulus.
3446	9	33 46N	108 15W	0	Normal	48	1804	105	G-19	85	Obl.	<u>GEOGRAPHY/CARTOGRAPHY</u> : United States, Oblique view looking north from New Mexico into Colorado Wyoming, Nebraska, and South Dakota, Rio Grande, Rocky Mountains, High Plains, Santa Fe. <u>GEOLOGY/HYDROLOGY</u> : Complex mountains and alluvium deposits. <u>METEOROLOGY</u> : Cirro-stratus, strato-cumulus, extensive snow cover in mountain areas and high plains region.
3447	9	33 46N	106 45W	0	Normal	48	1804	105	G-19	76	Obl.	<u>GEOGRAPHY/CARTOGRAPHY</u> : United States, New Mexico, Colorado, Santa Mountains, Sangre de Cristo Mountains, Rio Grande Valley, Cities of Santa Fe and Pueblo. <u>GEOLOGY/HYDROLOGY</u> : Complex mountains and alluvium deposits. <u>AGRICULTURE</u> : Scattered field patterns along Rio Grande Valley. <u>FORESTRY</u> : Desert shrubform with mixed conifers at higher elevations. <u>METEOROLOGY</u> : Cirro-stratus, strato-cumulus, cumulus.

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C

AS 9-22

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3451	Mar 9	33 45N	103 45W	20	Normal	49	1805	105	G-19	75	Obl.	GEOGRAPHY/PHOTOGRAPHY: United States, view looking north from New Mexico and Texas into Oklahoma, Kansas and Colorado, High Plains, Red Hills, Arkansas River, Amarillo, Buffalo Lake. GEOLOGY/HYDROLOGY: Central Plains region. AGRICULTURE: Heavy concentration of field patterns, some snow covered. FORESTRY: Desert shrubform with range grasses. METEOROLOGY: Cirrus, alto-cumulus, extensive snow cover in High Plains.
3452	9	33 45N	102 10W	0	Normal	51	1805	105	G-19	0	Vert.	GEOGRAPHY/PHOTOGRAPHY: United States, Texas, Lubbock, Estacado Plains. GEOLOGY/HYDROLOGY: Limestone plains region. AGRICULTURE: Extensive dryland field patterns and pasture lands. FORESTRY: Deciduous shrubform with range grasses.
3453	9	33 58N	96 52W	0	Normal	55	1806	105	G-20	0	Vert.	GEOGRAPHY/PHOTOGRAPHY: United States, Texas, Oklahoma, Lake Texoma, Red River, Towns of Durant, Denison, and Sherman. GEOLOGY/HYDROLOGY: Central Plains region. AGRICULTURE: Scattered areas of heavy cultivation. FORESTRY: Deciduous shrubform changing to intermediate size hardwood stands along drainage.
3454	9	34 54N	90 28W	0	Normal	54	1808	104	G-20	5	Obl.	GEOGRAPHY/PHOTOGRAPHY: United States, view looking from Arkansas and Mississippi, north up the Mississippi River Valley into Illinois and Missouri, Lakes Sardis and Enid, City of Memphis, Towns of Clarksdale and Blytheville. GEOLOGY/HYDROLOGY: Floodplain region and Central Plain. AGRICULTURE: Extremely heavy cultivation, field patterns of variable size and shape. FORESTRY: Mixed pine/hardwood uplands, hardwood bottomlands. METEOROLOGY: Cumulus.

* NADIR POINT OF CAMERA

A-83

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3455	Mar 9	32 35N*	91 00W	60	Normal	54	1808	104	C-20	20	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, view looking from Arkansas and Mississippi north up the Mississippi River Valley into Illinois and Missouri, junctions of the Mississippi River is visible, Cities of Memphis and St. Louis. GEOLOGY/HYDROLOGY: Flood plain deposit and Central Plains. AGRICULTURE: Heavy cultivation, numerous field patterns. FORESTRY: Mixed pine/hardwood uplands with hardwood bottomlands. METEOROLOGY: Alto-cumulus, snow cover north of St. Louis through south-central Illinois.
3456	9	30 17N*	78 54W	0	Normal	52	1811	103	C-21	60	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, view looking northwest along East Coast from near Savannah, Georgia, Cape Fear and Lookout. GEOLOGY/HYDROLOGY: Coastal plain region. METEOROLOGY: Nimbus-stratus, alto-cumulus. OCEANOGRAPHY: Atlantic Ocean, water tonal variations extends into offshore zone.
3457	9	31 50N	110 57W	0	Normal	52	1937	103	H-22	70	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Arizona, Area south of Tucson, Town of Sahuarita and Continental. GEOLOGY/HYDROLOGY: Basin and Range Province. AGRICULTURE: Isolated field patterns visible through clouds. FORESTRY: Desert shrubform. METEOROLOGY: Cumulus humilis.
3458	9	31 43N	107 45W	0	Normal	54	1937	103	H-23	1	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Mexico, New Mexico, Cedar Mountains, Towns of Columbus and Palomas. GEOLOGY/HYDROLOGY: Basin and Range Province of tertiary volcanics and quaternary alluvium. AGRICULTURE: Isolated areas of moderately heavy cultivation, rectangular field patterns. FORESTRY: Desert shrubform. METEOROLOGY: Cumulus humilis, cirrus fibratus.

* NADIR POINT OF CAMERA

A-84

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C
AS 9-22

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3459	Mar 9	31 41N	107 39W	0	Normal	54	1937	103	H-23	1	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Mexico, New Mexico, Towns of Columbus and Palomas. GEOLOGY/HYDROLOGY: Basin and Range Province of tertiary volcanics and quaternary alluvium. AGRICULTURE: Isolated areas of moderate to heavy cultivation, large rectangular field patterns. FORESTRY: Desert shrubform. METEOROLOGY: Cumulus humilis, cirrus fibratus.
3460	9	31 41N	106 27W	90	Normal	53	1937	103	H-23	5	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Mexico, Texas, New Mexico, San Andres Mountains, City of El Paso, Rio Grande-Valley. GEOLOGY/HYDROLOGY: Rio Grande floodplain, and Basin and Range Province. AGRICULTURE: Heavy cultivation along Rio Grande River. FORESTRY: Desert shrubform. METEOROLOGY: Cumulus humilis, cirrus fibratus.
3461	9	31 42N	102 19W	0	Normal	52	1938	103	H-23	15	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Texas, Towns of Odessa, Midland, Big Spring, Sweetwater, Lamesa, and Lubbock, Caprock Escarpment. GEOLOGY/HYDROLOGY: Central Basin Platform within the plains region. AGRICULTURE: Heavy concentration of field patterns, primarily range lands. FORESTRY: Deciduous shrubform. METEOROLOGY: Cirrus fibratus.
3462	9	29 50N	95 35W	0	Normal	55	1939	103	H-24	10	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Texas, Gulf of Mexico, Houston and Galveston Metropolitan areas, Galveston Bay, Beaumont. GEOLOGY/HYDROLOGY: Gulf Coast Plain. AGRICULTURE: Heavy concentration of field patterns, some areas presently under winter cultivation. FORESTRY: Deciduous forests, changing to mixed pine/hardwood with range grass. METEOROLOGY: Cirrus fibratus. OCEANOGRAPHY: Sediments visible in the near-shore zone and Galveston Bay.

* RADAR POINT OF CAMERA

A-85

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C
AS 9-22

Frame No.	Date	Latitude deg min.	Principal Point Longitude deg min.	Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
3463	9 Mar	29 37N	95 43W	0	Normal	55	1939	103	H-24	15	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Texas, Houston and Galveston Metropolitan areas, Galveston and Trinity Bays. GEOLOGY/HYDROLOGY: Gulf Coastal plain. AGRICULTURE: Heavy concentration of field patterns, some under winter cultivation. FORESTRY: Range land with deciduous stands along drainage, changing to mixed pine/hardwood forests. METEOROLOGY: Cirrus fibratus.
3464	9	29 15N	94 48W	0	Normal	55	1939	103	H-24	18	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Texas, Cities of Houston, Galveston and Beaumont, Galveston and Trinity Bays, Sabine Lake, Town of Freeport. GEOLOGY/HYDROLOGY: Coastal Plain and shoreline of emergence. AGRICULTURE: Heavy concentration of field patterns, some under winter cultivation, range grasses. FORESTRY: Intermediate deciduous forests along drainage, mixed pine/hardwood forests. METEOROLOGY: Cirrus fibratus. OCEANOGRAPHY: Gulf of Mexico, possible depth variations visible.
3465	9	29 41N	94 07W	70	Normal	52	1939	103	H-24	15	Obl.	GEOGRAPHY/CARTOGRAPHY: United States, Texas, Louisiana, Galveston and Trinity Bays, Sabine and Calcasieu Lakes, Galveston, Beaumont, Port Arthur, and Lake Charles. GEOLOGY/HYDROLOGY: Coastal Plain and shoreline of emergence. AGRICULTURE: Heavy field pattern concentration. FORESTRY: Mixed pine/hardwood inland, deciduous forests with range grass along coast. METEOROLOGY: Cirrus fibratus. OCEANOGRAPHY: Gulf of Mexico, possible depth variations visible in the nearshore zone.
3466	9	24 54N	85 34W	0	Normal	49	1943	101	H-25	20	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Florida Keys, Grand Boca Channel, Marquesas Keys. GEOLOGY/HYDROLOGY: Coral reefs. METEOROLOGY: Cumulus humilis, cirro-cumulus. OCEANOGRAPHY: Coral reef and coral heads and water color changes in relation to depths.

* NAACP POINT OF CAMERA

A-86

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C

AS 9-22

Frame No.	Date	Principal Point		Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.								
3467	Mar 9	24 33N	82 08W	Normal	49	1943	101	H-25	15	Vert.	GEOGRAPHY/CARTOGRAPHY: United States, Florida Keys, Key West, Marquesas Keys, Grand Boca Channel. GEOLOGY/HYDROLOGY: Coral reefs. FORESTRY: Broadleaf evergreen with coastal marsh grasses. METEOROLOGY: Cirro-cumulus, alto-cumulus. OCEANOGRAPHY: Depth variations and coral reefs visible.
3468	9	22 25N	79 00W	Normal	47	1944	101	J-26	38	Vert.	GEOGRAPHY/CARTOGRAPHY: Cuba, Camaguey Archipelago, Coco Reef, Rumano Reef, Bay of Jigüey, Town of Moron. GEOLOGY/HYDROLOGY: Coastal plain, coral reefs, and elevated plateau. AGRICULTURE: Numerous large field patterns along coast. FORESTRY: Semi-deciduous broadleaf, broadleaf evergreen and broadleaf deciduous. METEOROLOGY: Cirro-cumulus, cumulus congestus. OCEANOGRAPHY: Caribbean Sea, Old Bahama Channel, depth variations and coral reef visible.
3469	9	22 06N	78 10W	Normal	47	1944	101	J-26	36	Vert.	GEOGRAPHY/CARTOGRAPHY: Cuba, Camaguey Archipelago, Rumano Reef, Bay of Jigüey, Old Bahama Channel. GEOLOGY/HYDROLOGY: Coral reef, coastal plain and interior plateau. AGRICULTURE: Numerous large field patterns along coast. FORESTRY: Semi-deciduous broadleaf, broadleaf evergreen and broadleaf deciduous. METEOROLOGY: Cumulus congestus. OCEANOGRAPHY: Caribbean Sea, Old Bahama Channel, submarine features and color changes with increasing depths visible.
3470	9	20 50N	76 30W	Normal	47	1944	101	J-26	6	Vert.	GEOGRAPHY/CARTOGRAPHY: Cuba, Oriente Province, Towns of Holguin and Bayamo. GEOLOGY/HYDROLOGY: Interior plateau. AGRICULTURE: Heavy concentration of field patterns, variable in size and shape. FORESTRY: Mixed broadleaf, deciduous and evergreen. METEOROLOGY: Cumulus humilis. OCEANOGRAPHY: Caribbean Sea, some nearshore areas visible indicating steep gradients.

* NADIR POINT OF CAMERA

A-87

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C

Frame No.	Date	Principal Point		Image Evaluation	Sun Elevation	GMT	AS 9-22		Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.				Altitude n. mi.	ONC WAC No.		
3471	Mar 9	20 06N	75 20W	Normal	45	1944	101	J-26	14	Vert. GEOGRAPHY/CARTOGRAPHY: Cuba, Oriente Province, Guantanamo Bay, Cities of Santiago de Cuba and Guantánamo. GEOLOGY/HYDROLOGY: Complex mountains and elevated plateau region. AGRICULTURE: Heavy concentration of field patterns, variable in size and shape. FORESTRY: Mixed broadleaf, deciduous and evergreen. METEOROLOGY: Cirrus fibratus, cumulus humilis, cumulus congestus. OCEANOGRAPHY: Caribbean Sea, steep nearshore gradients indicated by coastline topography and narrow or non-existent beaches.
3472	9	19 40N	73 27W	Normal	45	1944	101	J-26	6	Vert. GEOGRAPHY/CARTOGRAPHY: Haiti, Cape-A-Foux, Torture Island, Windward Passage, Towns of Gonaïves, Bombardopolis, and Jean Rabel. GEOLOGY/HYDROLOGY: Complex mountains and coastal plain. AGRICULTURE: Small isolated field patterns, mostly along coast. FORESTRY: Mixed broadleaf, deciduous and evergreen forests. METEOROLOGY: Cumulus humilis. OCEANOGRAPHY: Caribbean Sea, steep nearshore zone indicated by coastal features and little submarine detail.
3473	9	18 57N	73 18W	Normal	45	1944	101	J-26	2	Vert. GEOGRAPHY/CARTOGRAPHY: Haiti, Gonaïves Island, St. Mark and Sud Cnals, Town of St. Mark. GEOLOGY/HYDROLOGY: Complex mountains and coastal plain. AGRICULTURE: Field patterns visible near Gonaïves. FORESTRY: Mixed broadleaf, deciduous and evergreen. METEOROLOGY: Cirro-cumulus. OCEANOGRAPHY: Caribbean Sea, coral reefs and heads.

* NADIR POINT OF CAMERA

A-88

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE C
AS 9-22

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3474	Mar 9	19 42N	72 00W	0	Normal	45	1945	101	J-26	0	Obl.	<p>GEOGRAPHY/CARTOGRAPHY: Haiti, Dominican Republic, Torture Island, Manzanillo Bay, Towns of Cape Haitien and Gonaives.</p> <p>GEOLOGY/HYDROLOGY: Complex, folded mountains and coastal plain region.</p> <p>AGRICULTURE: Field patterns near Gonaives and Monte Cristi.</p> <p>FORESTRY: Mixed broadleaf, deciduous and evergreen.</p> <p>METEOROLOGY: Cumulus humilis.</p> <p>OCEANOGRAPHY: Caribbean Sea, depth variations indicated by color difference.</p>

* NADIR POINT OF CAMERA

A-89

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE D
AS 9-23

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3475	Mar. 10	34	58N 137 51E	0	Dark	45	0127	100	G-11	35	Obl.	GEOGRAPHY/CARTOGRAPHY: Japan, Mt. Fujiyama, Island of Honshu. GEOLOGY/HYDROLOGY: Volcanic mountains. AGRICULTURE: Extensive cultivated areas. FORESTRY: Mixed forest stands on higher elevations. METEOROLOGY: Cumulus, strato-cumulus. OCEANOGRAPHY: Ocean depth variations.
3476	10	30	29N 93 14W	45	Dark	26	1433	105	H-24	25	Obl.	GEOGRAPHY/CARTOGRAPHY: Texas, Beaumont, Louisiana, Lake Charles, Mississippi River between Natchez and Baton Rouge. GEOLOGY/HYDROLOGY: Mississippi River alluvial plain. AGRICULTURE: Scattered cultivated areas. FORESTRY: Extensive mixed-forest areas. METEOROLOGY: Towering cumulus, cirrus.
3477	10	29	29N 92 39W	0	Dark	30	1433	105	H-24	25	Obl.	GEOGRAPHY/CARTOGRAPHY: Louisiana, Vermilion Bay to Atchafalaya Bay. GEOLOGY/HYDROLOGY: Coastal plain, extensive alluvial deposits. AGRICULTURE: Scattered cultivated areas. FORESTRY: Extensive tree-covered areas. METEOROLOGY: Towering cumulus, cirrus. OCEANOGRAPHY: Alluvial sediment deposits. Ocean depth variations.
3478	10	30	38N 89 40W	0	Dark	30	1434	105	H-24	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Louisiana, Alabama, New Orleans to Mobile Alabama. Regional transportation network. GEOLOGY/HYDROLOGY: Coastal plain. AGRICULTURE: Large number of cultivated areas. FORESTRY: Extensive mixed-forest areas.
3479	10	30	57N 89 11W	80	Dark	30	1434	105	H-24	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Mississippi, Biloxi. GEOLOGY/HYDROLOGY: Coastal plain. AGRICULTURE: Large number of cultivated areas. FORESTRY: Extensive mixed-forest areas.

* NADIR POINT OF CAMERA

A-90

HANDHELD COLOR PHOTOGRAPHS

MAGAZINE D

AS 9-23

Frame No.	Date	Principal Point		Image Evaluation	Percent Overlap	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3480	Mar. 10	30	53N 87	Dark	0	30	1434	105	H-24	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Alabama, Mobile, Florida, Pensacola. GEOLOGY/HYDROLOGY: Coastal plain. Trellis drainage. AGRICULTURE: Intensive cultivation. FORESTRY: Extensive mixed-forest areas. OCEANOGRAPHY: Alluvial sediment deposits. Depth variations.
3481	10	16	13N 03	Normal	0	48	1454	99	J-2	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Mali, Lake Fagubine. GEOLOGY/HYDROLOGY: Complex metamorphic plateau. AGRICULTURE: Scattered range land. FORESTRY: Savanna grassland.
3482	10	16	00N 2	Normal	0	48	1454	99	K-2	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Mali, Niger, Niger River. GEOLOGY/HYDROLOGY: Complex metamorphic plateau. AGRICULTURE: Scattered farms. FORESTRY: Savanna grassland. METEOROLOGY: Small cumulus.
3483	10	35	35N 95	Dark	0	38	1607	103	G-20	20	Obl.	GEOGRAPHY/CARTOGRAPHY: Arkansas, Arkansas and Canadian River Junction, Ft. Smith. GEOLOGY/HYDROLOGY: Athens Plateau, Ouachita Mountains - complex fold mountains, erosion surface. AGRICULTURE: Scattered cultivated areas. FORESTRY: Extensive mixed-forest areas. METEOROLOGY: Cumulus, alto-cumulus.
3484	10	35	19N 93	Dark	10	38	1607	103	G-20	32	Obl.	GEOGRAPHY/CARTOGRAPHY: Arkansas, Dardenells Reservoir, Arkansas River. GEOLOGY/HYDROLOGY: Complex fold mountains, erosion surface. AGRICULTURE: Scattered cultivated areas. FORESTRY: Extensive mixed-forest areas. METEOROLOGY: Cumulus.
3485	10	35	16N 92	Dark	90	38	1607	103	G-20	30	Obl.	GEOGRAPHY/CARTOGRAPHY: Arkansas, Little Rock, Arkansas River. GEOLOGY/HYDROLOGY: Complex folded structure, erosion surface. AGRICULTURE: Scattered cultivated areas. FORESTRY: Extensive mixed-forest stands. METEOROLOGY: Cumulus.

* NADIR POINT OF CAMERA

A-91

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE D

AS 9-23

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3486	Mar. 10	34 34N	91 15W	0	Dark	38	1607	103	C-20	28	Obl.	GEOGRAPHY/CARTOGRAPHY: Arkansas, Tennessee, Mississippi and Arkansas Rivers. GEOLOGY/HYDROLOGY: Coastal plain with extensive alluvial deposits. AGRICULTURE: Extensive cultivated areas. Field pattern discernible. FORESTRY: Mixed-forest stands. METEOROLOGY: Small cumulus, towering cumulus.
3487	10	34 47N	89 54W	0	Dark	38	1607	103	C-20	45	Obl.	GEOGRAPHY/CARTOGRAPHY: Mississippi, Tennessee, Sardinia and Enda Reservoirs, Mississippi River. GEOLOGY/HYDROLOGY: Coastal plain with extensive alluvial deposits. AGRICULTURE: Extensive cultivated areas. Field pattern discernible. FORESTRY: Mixed-forest stands. METEOROLOGY: Cumulus, strato-cumulus.
3488	10	16 59N	24 35W	0	Normal	47	1673	103	K-0	35	Vert.	GEOGRAPHY/CARTOGRAPHY: Cape Verde Islands, Sao. Nicolau, Santo Antao, San Vicente, Santa Luzia, Ilheu Branco, Ilheu Raso. GEOLOGY/HYDROLOGY: Volcanic islands. AGRICULTURE: Cultivated areas along the coast. FORESTRY: Extensive broadleaf forest. METEOROLOGY: Small cumulus.
3489	10	16 30N	22 54W	0	Normal	47	1623	99	K-0	40	Vert.	GEOGRAPHY/CARTOGRAPHY: Cape Verde Islands, Boa Vista, Sal. GEOLOGY/HYDROLOGY: Volcanic islands. AGRICULTURE: Field pattern along coastal areas. FORESTRY: Broadleaf forest on higher elevations. METEOROLOGY: Small cumulus. OCEANOGRAPHY: Ocean depth variations.
3490	10	15 22N	23 35W	0	Normal	47	1623	99	K-0	4	Vert.	GEOGRAPHY/CARTOGRAPHY: Cape Verde Islands, Santiago, Maio. GEOLOGY/HYDROLOGY: Volcanic islands, dendritic drainage. AGRICULTURE: Scattered cultivation along the coastal areas. FORESTRY: Broadleaf forest on higher elevations. METEOROLOGY: Cumulus, strato-cumulus. OCEANOGRAPHY: Ocean depth variations.

* NADIR POINT OF CAMERA

A-92

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE D

AS 9-23

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3491	Mar. 10	13	00N 17 45W	0	Dark	41	1625	99	K-0	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Senegal, Dakar, North Atlantic Ocean. GEOLOGY/HYDROLOGY: Coastal plain. AGRICULTURE: Intensive cultivation along the coastal areas. FORESTRY: Savanna grassland. OCEANOGRAPHY: Ocean depth variations along parts of the coastline.
3492	10	12	30N 16 55W	0	Dark	41	1625	99	K-0	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Senegal, Dos Bijagos Archipelago, Casamance River. GEOLOGY/HYDROLOGY: Marshy coastal plain. FORESTRY: Marsh shrubform. OCEANOGRAPHY: Sediment deposits. Ocean depth variations.
3493	10	11	44N 16 27W	10	Dark	41	1625	99	K-0	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Senegal, Das Bijagos Archipelago, Rio Cacheau. GEOLOGY/HYDROLOGY: Marshy coastal plain. FORESTRY: Marsh shrubform. METEOROLOGY: Cirrus. OCEANOGRAPHY: Ocean depth variations, shallow off-shore area.
3494	10	11	54N 15 41W	70	Dark	41	1626	99	K-0	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Senegal, Dos Bijagos Archipelago, Rio Mansoa. GEOLOGY/HYDROLOGY: Coastal plain, dendritic drainage. FORESTRY: Marsh shrubform. OCEANOGRAPHY: Ocean depth variations.
3495	10	07	33N 12 36W	0	Dark	37	1627	99	L-1	4	Obl.	GEOGRAPHY/CARTOGRAPHY: Sierra Leone, Shebro Island. GEOLOGY/HYDROLOGY: Coastal plain. AGRICULTURE: Scattered cultivated areas. FORESTRY: Tropical broadleaved forest and tall savanna grassland. METEOROLOGY: Cumulus, thick cirrus. OCEANOGRAPHY: Some wave-action.

* NADIR POINT OF CAMERA

A-93

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE D
AS 9-23

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
	Mar.											
3496	10	11 20N	67 30W	0	Dark	47	1923	118	K-27	20	Obl.	GEOGRAPHY/CARTOGRAPHY: Venezuela, Lago De Valencia, Islands of Curacao and Bonaire in the Caribbean Sea. GEOLOGY/HYDROLOGY: Coastal plain region. FORESTRY: Dense to semi-dense stands of hardwood, broadleaf forest. METEOROLOGY: Cumulus, cirrus. OCEANOGRAPHY: Shallow water off the coastline indicating the extent of the continental shelf.
3497	10	02 30N*	50 00W	0	Dark	30	1929	139	M-27	90	Obl.	GEOGRAPHY/CARTOGRAPHY: Amazon Delta. (Orbit 109) GEOLOGY/HYDROLOGY: Alluvial deposits. METEOROLOGY: Cumulus, alto-cumulus.
3498	10	01 25N*	48 30W	0	Dark	30	1929	139	M-27	90	Obl.	GEOGRAPHY/CARTOGRAPHY: Amazon Delta. (Orbit 109) GEOLOGY/HYDROLOGY: Alluvial deposits. METEOROLOGY: Cumulus, alto-cumulus.
3499	10	00 30N*	47 01W	0	Dark	30	1930	145	M-27	90	Obl.	GEOGRAPHY/CARTOGRAPHY: Amazon Delta. (Orbit 109) GEOLOGY/HYDROLOGY: Alluvial deposits. METEOROLOGY: Cumulus, alto-cumulus.
3500	10						2150	175		0		Lunar view.
3501	10	77 45S*	69 02W	0	Dark	5	2238	175		100	Obl.	Partial frame.
3502	10	17 45S	69 02W	0	Dark	5	2238	175	P-26	5	Vert.	GEOGRAPHY/CARTOGRAPHY: Bolivia and Peru, Lake Titicaca, Border. GEOLOGY/HYDROLOGY: Complex mountains and some alluvial deposits. AGRICULTURE: Scattered cultivated areas. FORESTRY: Broadleaf, hardwood forest stands. METEOROLOGY: Cumulus, strato-cumulus.
3503	10	30 15N*	132 20E	0	Dark	26	2335	117	G-11	37	Obl.	GEOGRAPHY/CARTOGRAPHY: Japan, Nagoya, Mt. Fujiyama on the Island of Honshu. GEOLOGY/HYDROLOGY: Volcanic islands. METEOROLOGY: Cumulus, alto-cumulus.
3504	10	30 30N*	134 00E	90	Dark	26	2337	117	G-11	30	Obl.	GEOGRAPHY/CARTOGRAPHY: Japan, Nagoya, Mt. Fujiyama on the Island of Honshu. GEOLOGY/HYDROLOGY: Volcanic islands. METEOROLOGY: Alto-cumulus, strato-cumulus, cirrus.

* NADIR POINT OF CAMERA

A-94

HANDHELD COLOR PHOTOGRAPHS

MAGAZINE D

AS 9-23

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3505	Mar. 10	24	40N* 158 00W	0	Normal	60	2350	104		15	Obl.	GEOGRAPHY/CARTOGRAPHY: Hawaiian Islands, Oahu, Kauai, Niihau. GEOLOGY/HYDROLOGY: Volcanic mountains. METEOROLOGY: Cumulus.
3506	10	23	55N* 155 45W	95	Normal	60	2350	104		15	Obl.	GEOGRAPHY/CARTOGRAPHY: Hawaiian Islands, Maui, Molokai, Oahu. GEOLOGY/HYDROLOGY: Volcanic mountains. METEOROLOGY: Cumulus, strato-cumulus.
3507	10	23	30N* 154 35W	100	Normal	60	2351	101		15	Obl.	GEOGRAPHY/CARTOGRAPHY: Hawaiian Islands, Hawaii, Maui, Molokai, Oahu, Lanai, Kahoolawe. GEOLOGY/HYDROLOGY: Volcanic mountains. METEOROLOGY: Cumulus, strato-cumulus.
3508	10	23	00N* 153 35W	95	Normal	60	2351	106		10	Obl.	GEOGRAPHY/CARTOGRAPHY: Hawaiian Islands, Hawaii, Maui, Molokai, Kahoolawe, Lanai, Oahu. GEOLOGY/HYDROLOGY: Volcanic mountains. METEOROLOGY: Cumulus, strato-cumulus. OCEANOGRAPHY: Ocean depth variations.
3509	11	10	53S* 100 34W	0	Normal	14	2406	159		100	Obl.	METEOROLOGY: Towering cumulus, alto-cumulus.
3510	11	26	08N* 95 58E	0	Dark	10	0100	135	H-10	20	Obl.	GEOGRAPHY/CARTOGRAPHY: China, Nomeha Barwa. GEOLOGY/HYDROLOGY: Complex fold mountains. FORESTRY: Extensive forest stands. METEOROLOGY: Alto-cumulus.
3511	11	27	30N 92 55E	0	Normal	10	0100	135	H-10	0	Obl.	GEOGRAPHY/CARTOGRAPHY: China, Himalayas looking North. GEOLOGY/HYDROLOGY: Complex fold mountains. FORESTRY: Coniferous forest stands on lower slopes.
3512	11	28	22N 94 00E	80	Normal	10	0100	135	H-10	0	Obl.	GEOGRAPHY/CARTOGRAPHY: China, Himalayas looking North. GEOLOGY/HYDROLOGY: Complex fold mountains. FORESTRY: Coniferous forest stands on lower slopes.
3513	11	28	56N* 104 03E	0	Dark	10	0100	135	H-10	15	Obl.	GEOGRAPHY/CARTOGRAPHY: China, Chang Chiang River. GEOLOGY/HYDROLOGY: Complex fold mountains. AGRICULTURE: Intensive cultivation along Chang Chiang River. FORESTRY: Mixed-forest stands. METEOROLOGY: Alto-cumulus, cirrus.

* NADIR POINT OF CAMERA

A-95

Frame No	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	CNC WAC No.	% Cloud Cover	Viewing Mode	Description	
		Latitude deg. min.	Longitude deg. min.										
3514	Mar. 11	36	17N 06	00W	0	Normal	38	1012	110	G-1	10	Obl.	GEOGRAPHY/CARTOGRAPHY: Straits of Gibraltar, Morocco, Spain. GEOLOGY/HYDROLOGY: Complex fold mountains and plateaus. AGRICULTURE: Very sparse and scattered cultivation along coastal areas. FORESTRY: Scattered shrubform. METEOROLOGY: Cumulus, cirrus. OCEANOGRAPHY: Some wave action along the coastline.
3515	11	37	40N 02	00W	0	Normal	38	1012	110	G-1	0	Obl.	GEOGRAPHY/CARTOGRAPHY: North Africa, Mediterranean Sea, Spain. GEOLOGY/HYDROLOGY: Complex mountains and plateau. FORESTRY: Scattered shrubform. METEOROLOGY: Cumulus, cirrus.
3516	11	32	55N 12	10E	0	Normal	50	1016	103	G-2	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Libya, Tripoli, Mediterranean Sea. GEOLOGY/HYDROLOGY: Coastal plain and complex plateau. AGRICULTURE: Intensive field patterns along the coastal plain. FORESTRY: Desert shrubform. METEOROLOGY: Cumulus.
3517	11	32	48N 13	00E	100	Normal	50	1016	103	G-2	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Libya, Tripoli, Mediterranean Sea. GEOLOGY/HYDROLOGY: Coastal plain and complex plateau. AGRICULTURE: Intensive cultivation along the coastal plain. FORESTRY: Desert shrubform. METEOROLOGY: Cumulus.
3518	11	32	40N 14	35E	80	Normal	52	1017	102	G-2	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Coast of Libya from Tripoli to Misurata. GEOLOGY/HYDROLOGY: Coastal plain and complex plateau. AGRICULTURE: Intensive cultivation along the coastal plain. FORESTRY: Desert shrubform. METEOROLOGY: Cumulus. OCEANOGRAPHY: Some wave action along the coastline.

A-96

* NADIR POINT OF CAMERA

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE D
AS 9-23

Frame No.	Date	Principal Point		Image Evaluation	Percent Overlap	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3519	Mar. 11	32	10N 20	08E	0	55	1018	101	H-4	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Coast of Libya, Bengasi. GEOLOGY/HYDROLOGY: Coastal plain and complex plateau. FORESTRY: Desert shrub-form. METEOROLOGY: Cumulus. COSMOGRAPHY: Shallow waters along the coastline, wave action.
3520	11	35	10N 25	00E	0	51	1019	100	G-3	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Island of Crete, Mediterranean Sea. GEOLOGY/HYDROLOGY: Volcanic island. METEOROLOGY: Cumulus.
3521	11	30	15N 31	47E	0	55	1020	100	H-5	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Nile Delta, Suez Canal, Gulf of Suez, Cairo. GEOLOGY/HYDROLOGY: Alluvial deposits. AGRICULTURE: Intensive cultivation. METEOROLOGY: Cumulus. COSMOGRAPHY: Sediment deposits.
3522	11	29	06N 31	05E	20	55	1020	103	H-5	0	Vert.	GEOGRAPHY/CARTOGRAPHY: United Arab Republic, Nile River at Sani Suwayf. GEOLOGY/HYDROLOGY: Nile flood plain and complex plateau. AGRICULTURE: Intensive cultivations, on the flood plain. Irrigation network visible. FORESTRY: Desert shrubform.
3523	11	27	45N 33	48E	0	57	1021	101	H-5	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Strait of Gubal, Sirai. GEOLOGY/HYDROLOGY: Erg plain and rugged hills of basement complex. FORESTRY: Desert shrubform. COSMOGRAPHY: Shallow along the coast.
3524	11	27	58N 34	37E	20	57	1021	101	H-5	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Saudi Arabia, Gulf of Aqaba, Sinai Peninsula. GEOLOGY/HYDROLOGY: Erg plain and rugged hills of basement complex. FORESTRY: Desert shrubform.
3525	11	06	00N 75	00E	0	22	1033	127	L-8	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Ceylon. GEOLOGY/HYDROLOGY: Complex plateau. METEOROLOGY: Cumulus, thick cirrus.

* NADIR POINT OF CAMERA

A-97

HANDHELD COLOR PHOTOGRAPHS MAGAZINE D

AS 9-23

Frame No	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3526	11 Mar.	36	39N 05	44W	0	Dark	50	1145	186	G-1	65	Obl. GEOGRAPHY/CARTOGRAPHY: Strait of Gibraltar, Morocco, Spain. GEOLOGY/HYDROLOGY: Complex mountains and plateau. METEOROLOGY: Cumulus, cirrus.
3527	11				0	Normal	55	11-			0	Obl. GEOGRAPHY/CARTOGRAPHY: Africa, Algeria, Libya (Orbit 119). GEOLOGY/HYDROLOGY: Complex plateau. AGRICULTURE: Field patterns around the oasis. FORESTRY: Desert shrubform.
3528	11				0	Normal	55	11-			0	Obl. GEOGRAPHY/CARTOGRAPHY: Africa, Algeria, Libya (Orbit 119). GEOLOGY/HYDROLOGY: Complex plateau. FORESTRY: Desert shrubform.
3529	11				0	Normal	55	11-			0	Obl. GEOGRAPHY/CARTOGRAPHY: Africa, Algeria, Libya (Orbit 119). GEOLOGY/HYDROLOGY: Complex plateau.
3530	11				0	Normal	55	11-			0	Obl. GEOGRAPHY/CARTOGRAPHY: Africa, Algeria, Libya (Orbit 119). GEOLOGY/HYDROLOGY: Complex plateau. AGRICULTURE: Dry farming. FORESTRY: Desert shrubform.
3531	11				0	Normal	55	11-			0	Obl. GEOGRAPHY/CARTOGRAPHY: Africa, Algeria, Libya (Orbit 119). GEOLOGY/HYDROLOGY: Complex plateau. FORESTRY: Desert shrubform on higher elevations. METEOROLOGY: Cirrus.
3532	11				0	Normal	55	11-			0	Obl. GEOGRAPHY/CARTOGRAPHY: Africa, Algeria, Libya (Orbit 119). GEOLOGY/HYDROLOGY: Complex plateau. FORESTRY: Desert shrubform on higher elevations.
3533	11				30	Normal	55	11-			0	Obl. GEOGRAPHY/CARTOGRAPHY: Africa, Algeria, Libya (Orbit 119). GEOLOGY/HYDROLOGY: Complex plateau. FORESTRY: Desert shrubform on higher elevations. METEOROLOGY: Cumulus.

* RADAR POINT OF CAMERA

A-98

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE D
AS 9-23

Frame No.	Date	Principal Point		Image Evaluation	Percent Overlap	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3534	Mar. 11	16	15N 30	34E	0	53	1157	102	J-5	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Sudan, Nile River. GEOLOGY/HYDROLOGY: Flood plain and complex plateau. AGRICULTURE: Cultivation on the flood plain. FORESTRY: Scattered desert shrubform. METEOROLOGY: Cumulus.
3535	11	13	45N 40	28E	20	52	1200	116	K-5	15	Vert.	GEOGRAPHY/CARTOGRAPHY: Ethiopia, Somaliland. GEOLOGY/HYDROLOGY: Complex plateau and volcanic highlands. AGRICULTURE: Field pattern in the valley. FORESTRY: Hardwood forest stands. METEOROLOGY: Cumulus.
3536	11	13	15N 41	06E	30	52	1200	116	K-5	5	Vert.	GEOGRAPHY/CARTOGRAPHY: Ethiopia, Aferra. GEOLOGY/HYDROLOGY: Complex plateau and volcanic highlands. AGRICULTURE: Field pattern on the plateau and valley. FORESTRY: Broadleaf, hardwood forest stands. METEOROLOGY: Cumulus, cirrus.
3537	11	112	52N 41	28E	50	52	1200	116	K-5	5	Vert.	GEOGRAPHY/CARTOGRAPHY: Ethiopia, Somaliland. GEOLOGY/HYDROLOGY: Complex metamorphic plateau. AGRICULTURE: Scattered cultivated areas. FORESTRY: Broadleaf, hardwood forest stands. METEOROLOGY: Cumulus.
3538	11	112	27N 41	55E	50	52	1200	116	K-5	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Ethiopia, Somaliland. GEOLOGY/HYDROLOGY: Highly dissected complex metamorphic plateau. AGRICULTURE: Scattered cultivated areas. FORESTRY: Broadleaf, hardwood forest stands. METEOROLOGY: Cumulus.
3539	11	11	55N 42	37E	50	52	1120	116	K-5	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Ethiopia, Somaliland, Gulf of Aden. GEOLOGY/HYDROLOGY: Dissected complex metamorphic plateau. FORESTRY: Broadleaf, hardwood forest stands. METEOROLOGY: Cumulus, cirrus.

HANDHELD COLOR PHOTOGRAPHS

MAGAZINE D

AS 9-23

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude ft. m.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3540	11	11 45N	43 17E	40	Normal	52	1200	116	K-6	15	Vert.	GEOGRAPHY/CARTOGRAPHY: Gulf of Tadjoura, Somaliland, Ethiopia, Somalia, Gulf of Aden. GEOLOGY/HYDROLOGY: Narrow coastal plain and dissected complex metamorphic plateau. FORESTRY: Scattered stands of hardwood forest. METEOROLOGY: Cumulus, alto-cumulus, cirrus. OCEANOGRAPHY: Ocean depth variations.
3541	11	11 38N	43 15E	40	Normal	52	1200	116	K-6	20	Vert.	GEOGRAPHY/CARTOGRAPHY: Gulf of Tadjoura, Somaliland, Ethiopia, Somalia, Gulf of Aden. GEOLOGY/HYDROLOGY: Narrow coastal plain and complex metamorphic plateau. METEOROLOGY: Cumulus, alto-cumulus, cirrus. OCEANOGRAPHY: Ocean depth variations.
3542	11	12 43N	44 22E	0	Normal	52	1200	116	K-6	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Yemen, Aden, South Arabia, Straits of Bab Al Mandab. GEOLOGY/HYDROLOGY: Narrow coastal plain and complex metamorphic plateau. FORESTRY: Scattered desert shrubform. METEOROLOGY: Cumulus. OCEANOGRAPHY: Ocean depth variations.
3543	11	27 59N	82 20W	0	Dark	16	1306	140	H-25	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Florida, Tampa, Regional transportation network. GEOLOGY/HYDROLOGY: Coastal plain. AGRICULTURE: Scattered intensive cultivation. FORESTRY: Mixed forest stands. METEOROLOGY: Cumulus, cirrus. OCEANOGRAPHY: Shallow coastal area indicating the extent of the continental shelf.
3544	11	28 41N	81 07W	0	Dark	16	1307	140	H-25	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Florida, Cape Kennedy, Regional transportation network. GEOLOGY/HYDROLOGY: Coastal plain. AGRICULTURE: Scattered cultivated areas. FORESTRY: Mixed forest stands. METEOROLOGY: Cumulus, cirrus. OCEANOGRAPHY: Ocean depth variations.

* NADIR POINT OF CAMERA

A-100

HANDHELD COLOR PHOTOGRAPHS

MAGAZINE D
AS 9-23

Frame No.	Date	Principal		Point	Longitude deg. min.	Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.											
3545	Mar. 11	28	40N	80	37W	60	Dark	17	1307	138	H-25	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Florida, Cape Kennedy, Regional Transportation Network. GEOLOGY/HYDROLOGY: Coastal plain. AGRICULTURE: Scattered intensive cultivation. FORESTRY: Mixed forest stands. METEOROLOGY: Cumulus, cirrus. OCEANOGRAPHY: Ocean depth variations.
3546	11					60	Dark	17	1307	138	H-25	5	Obl.	GEOGRAPHY/CARTOGRAPHY: Florida, Cape Kennedy, Regional Transportation Network. GEOLOGY/HYDROLOGY: Coastal plain. AGRICULTURE: Scattered cultivated areas. FORESTRY: Some mixed-forest stands. METEOROLOGY: Cumulus, cirrus. OCEANOGRAPHY: Ocean depth variations.
3547	11	24	50N	02	35E	0	Normal	55	1326	98	H-2	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Algeria, Sahara Desert. GEOLOGY/HYDROLOGY: Complex plateau. FORESTRY: Desert shrubform.
3548	11					0	Dark					60	Obl.	GEOGRAPHY/CARTOGRAPHY: (Orbit 120). METEOROLOGY: Cumulus, cumulo-nimbus, strato-cumulus, cirrus.
3549	11					0	Dark					80	Obl.	GEOGRAPHY/CARTOGRAPHY: (Orbit 120). METEOROLOGY: Cumulus, cumulo-nimbus, strato-cumulus, cirrus.
3550	11					0	Dark					90	Obl.	GEOGRAPHY/CARTOGRAPHY: (Orbit 120). METEOROLOGY: Cumulus, alto-cumulus, cirrus.
3551	11	34	22N	86	12W	0	Dark	30	1441	142	G-20 G-21	80	Obl.	GEOGRAPHY/CARTOGRAPHY: Alabama, Birmingham, Gadsden, Decatur, Tennessee River. GEOLOGY/HYDROLOGY: Folded Appalachia, Ridge and Valley Region. AGRICULTURE: Scattered cultivated areas. FORESTRY: Extensive mixed-forest stands. METEOROLOGY: Cumulus. OCEANOGRAPHY: Alluvial deposits at the mouths of rivers. Some wave action.

* RADAR POINT OF CAMERA

A-101

Frame No.	Date	Principal Point		Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.								
3552	Mar. 11	28 02N	81 59W	Dark	37	1442	142	H-25	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Florida. GEOLOGY/HYDROLOGY: Coastal plain. AGRICULTURE: Extensive areas under cultivation. FORESTRY: Mixed forest-stands. METEOROLOGY: Cumulus. OCEANOGRAPHY: Ocean depth variations.
3553	11	35 12N	77 23W	Dark	36	1442	141	G-21	30	Obl.	GEOGRAPHY/CARTOGRAPHY: East Coast of United States, North Carolina, Neuse River. GEOLOGY/HYDROLOGY: Coastal plain. FORESTRY: Mixed-forest stands. METEOROLOGY: Cumulus.
3554	11	37 02N	76 51W	Dark	36	1442	141	G-21	50	Obl.	GEOGRAPHY/CARTOGRAPHY: East coast of United States, Virginia, North Carolina, Newport News, Portsmouth. GEOLOGY/HYDROLOGY: Coastal plain. FORESTRY: Mixed forest stands. METEOROLOGY: Cumulus.
3555	11	35 06N	77 23W	Dark	36	1442	141	G-21	5	Obl.	GEOGRAPHY/CARTOGRAPHY: East Coast of United States, Jacksonville, Pamlico and Neuse River. GEOLOGY/HYDROLOGY: Coastal plain. AGRICULTURE: Scattered cultivated areas. FORESTRY: Mixed-forest stands. METEOROLOGY: Cumulus. OCEANOGRAPHY: Wave action, ocean depth variations.
3556	11	38 45N	74 30W	Dark	36	1442	141	G-21	15	Obl.	GEOGRAPHY/CARTOGRAPHY: East Coast of United States from Atlantic City, New Jersey to Cape Hatteras, North Carolina and Pamlico Sound. GEOLOGY/HYDROLOGY: Coastal plain. FORESTRY: Mixed-forest stands. METEOROLOGY: Cumulus, alto-cumulus, cirrus.
3557	11	39 10N	73 31W	Dark	36	1443	140	G-21	30	Obl.	GEOGRAPHY/CARTOGRAPHY: East Coast of United States from Atlantic City, New Jersey to Rodanthe, North Carolina, and Pamlico Sound. GEOLOGY/HYDROLOGY: Coastal plain. FORESTRY: Mixed-forest stands. METEOROLOGY: Cumulus, alto-cumulus, cirrus.

* NADIR POINT OF CAMERA

A-102

HANDHELD COLOR PHOTOGRAPHS

MAGAZINE D

AS 9-23

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3558	Mar. 11	32 52N	115 30W	0	Normal	25	1614	130	C-18	20	Obl.	GEOGRAPHY/CARTOGRAPHY: California, Salton Sea, Imperial Valley, Chocolate and Santa Rosa Mountains, Calexico, Yuma and El Centro. GEOLOGY/HYDROLOGY: Complex mountains and basin and Range Province of alluvial and complex structures. AGRICULTURE: Heavy cultivation, large area of definable field patterns. FORESTRY: Scattered desert shrubform. METEOROLOGY: Altocumulus, snow cover in high mountain areas.
3559	11	31 42N	113 41W	0	Normal	27	1614	130	H-22	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Gulf of California, Bahia de Aduar. GEOLOGY/HYDROLOGY: Complex mountains and dissected plateau. Region of tertiary volcanic and alluvial deposits. FORESTRY: Scattered desert shrubform. OCEANOGRAPHY: Sediment movement along the coast, ocean depth variations.
3560	11	33 08N	111 52N	0	Normal	29	1616	123	G-19	25	Vert.	GEOGRAPHY/CARTOGRAPHY: Arizona, Phoenix, Temple, Gila River. GEOLOGY/HYDROLOGY: Volcanic and complex mountain ranges and quaternary alluvial deposits. AGRICULTURE: Intensive irrigated cultivation. FORESTRY: Scattered and sparse desert shrubform. and coniferous stands on higher elevations.
3561	11	33 22N	102 02W	0	Normal	36	1617	118	G-19	20	Vert.	GEOGRAPHY/CARTOGRAPHY: Texas, Lubbock, Brownfield. GEOLOGY/HYDROLOGY: Sedimentary plain. AGRICULTURE: Very intensive cultivation. Field pattern clearly discernible. METEOROLOGY: Cumulus, alto-cumulus, strato-cumulus.
3562	11	33 46N	98 40W	0	Normal	38	1618	115	G-20	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Texas, Oklahoma, Wichita Falls, Red River and Lake Kemp. GEOLOGY/HYDROLOGY: Sedimentary plain. AGRICULTURE: Intensive cultivation. FORESTRY: Forest stands along the streams. METEOROLOGY: Cumulus, alto-cumulus.

* NADIR POINT OF CAMERA

A-103

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE D

AS 9-23

Frame No.	Date	Principal Point			Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg min.	Longitude deg min.										
3563	Mar. 11	33 34N	91 20W		0	Normal	44	1620	109	G-20	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Arkansas, Mississippi, Cleveland, Greenville and Mississippi River. GEOLOGY/HYDROLOGY: Alluvial flood plain. Meander belts. AGRICULTURE: Cultivated areas. FORESTRY: Mixed-forest stands. METEOROLOGY: Small cumulus.
3564	11	33 44N	90 44W		40	Normal	44	1620	109	G-20	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Arkansas, Mississippi, Cleveland, Greenville, Arkansas and Mississippi Rivers. GEOLOGY/HYDROLOGY: Alluvial flood-plain. Meander belts. AGRICULTURE: Extensive cultivated areas. FORESTRY: Mixed-forest stands. METEOROLOGY: Small cumulus.
3565	11	34 44N	87 54W		0	Normal	46	1620	107	G-20	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Alabama, Tennessee, Mississippi. GEOLOGY/HYDROLOGY: Sedimentary plain. AGRICULTURE: Cultivated areas. FORESTRY: Mixed-forest stands. METEOROLOGY: Small cumulus.
3566	11	33 32N	86 44W		0	Normal	46	1621	106	G-20	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Alabama, Birmingham. GEOLOGY/HYDROLOGY: Folded Appalachia. AGRICULTURE: Scattered intensive cultivation. FORESTRY: Mixed-forest stands. METEOROLOGY: Small scattered cumulus.
3567	11	33 52N	84 33W		0	Normal	47	1621	106	G-21	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Georgia, Atlanta. GEOLOGY/HYDROLOGY: Appalachian Piedmont region. Sedimentary plateau. AGRICULTURE: Scattered cultivated areas. FORESTRY: Mixed-forest stands. METEOROLOGY: Small scattered cumulus.
3568	11	32 48N	80 02W		0	Normal	49	1622	104	G-21	0	Obl.	GEOGRAPHY/CARTOGRAPHY: East Coast of United States, St. Helena Sound, Charleston, South Carolina, Santee River. GEOLOGY/HYDROLOGY: Coastal plain. AGRICULTURE: Scattered cultivated areas. FORESTRY: Mixed-forest stands. OCEANOGRAPHY: Ocean depth variations, currents.

* NAUTIC POINT OF CAMERA

A-104

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE D
AS 9-23

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3569	Var.	33	06N 79	28W	Normal	50	1622	104	G-21	0	Obl.	GEOGRAPHY/CARTOGRAPHY: South Carolina, Charleston, Santee River, Charleston City. GEOLOGY/HYDROLOGY: Coastal plain. AGRICULTURE: Scattered cultivated areas. FORESTRY: Mixed-forest stands. OCEANOGRAPHY: Ocean depth variations, currents.
3570	11	35	07N 77	04W	Normal	50	1623	103	G-21	30	Obl.	GEOGRAPHY/CARTOGRAPHY: North Carolina, Cape Hatteras, Wilmington, Atlantic Ocean. GEOLOGY/HYDROLOGY: Coastal plain. AGRICULTURE: Scattered cultivated areas. FORESTRY: Mixed-forest stands. METEOROLOGY: Cumulus. OCEANOGRAPHY: Ocean depth variations.
3571	11	33	27N 103	29W	Normal	49	1753	104	G-19	49	Obl.	GEOGRAPHY/CARTOGRAPHY: New Mexico, Texas border. GEOLOGY/HYDROLOGY: Basin and range region. AGRICULTURE: Field patterns, intensive agriculture. METEOROLOGY: Cumulus, alto-cumulus, strato-cumulus, cirrus.
3572	11	33	35N 103	09W	Normal	49	1753	104	G-19	29	Obl.	GEOGRAPHY/CARTOGRAPHY: New Mexico, Texas border. GEOLOGY/HYDROLOGY: Basin and range region. AGRICULTURE: Field patterns, intensive agriculture. METEOROLOGY: Cumulus, alto-cumulus, strato-cumulus, cirrus.
3573	11	33	43N 102	46W	Normal	49	1753	104	G-19	16	Obl.	GEOGRAPHY/CARTOGRAPHY: New Mexico, Texas border. GEOLOGY/HYDROLOGY: Basin and range region. AGRICULTURE: Field patterns, intensive agriculture. FORESTRY: Range land. METEOROLOGY: Cumulus, alto-cumulus, strato-cumulus, cirrus.
3574	11	33	34N 102	23W	Normal	50	1753	103	G-19	15	Obl.	GEOGRAPHY/CARTOGRAPHY: Texas, Lubbock. GEOLOGY/HYDROLOGY: Sedimentary plateau, high-plains. AGRICULTURE: Field patterns, cultivated areas. FORESTRY: Range land. METEOROLOGY: Cumulus, alto-cumulus, cirrus.
3575	11	33	45N 102	03W	Normal	50	1753	103	G-19	20	Obl.	GEOGRAPHY/CARTOGRAPHY: Texas, Lubbock. GEOLOGY/HYDROLOGY: Sedimentary plateau, high-plains. AGRICULTURE: Field pattern, cultivated areas. FORESTRY: Range land. METEOROLOGY: Cumulus, alto-cumulus, strato-cumulus, cirrus.

A-105

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude in mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3576	Mar. 11	33 48N	101 24W	65	Normal	50	1753	103	G-19	24	Obl.	GEOGRAPHY/CARTOGRAPHY: Texas, Lubbock area. GEOLOGY/HYDROLOGY: Sedimentary plateau. High plain. AGRICULTURE: Field patterns, intensive agriculture. FORESTRY: Range land. METEOROLOGY: Cumulus, alto-cumulus, strato-cumulus, cirrus.
3577	11	34 11N	100 38W	65	Normal	50	1753	103	G-19	16	Obl.	GEOGRAPHY/CARTOGRAPHY: Texas, Lubbock area. GEOLOGY/HYDROLOGY: Sedimentary plateau. High plains. AGRICULTURE: Field-pattern, intensive agriculture. FORESTRY: Some forest stands along streams and on higher elevations. Range land. METEOROLOGY: Cumulus, alto-cumulus, strato-cumulus, cirrus.
3578	11	34 35N	100 18W	80	Normal	51	1753	103	G-19	27	Obl.	GEOGRAPHY/CARTOGRAPHY: Texas, Childress area, Red River. GEOLOGY/HYDROLOGY: Sedimentary plateau. AGRICULTURE: Field-pattern, intensive agriculture. Range land. FORESTRY: Deciduous shrub and forest stands along streams and on higher elevations. METEOROLOGY: Cumulus, alto-cumulus, strato-cumulus, cirrus.
3579	11	34 26N	99 53W	65	Normal	51	1753	103	G-20	33	Obl.	GEOGRAPHY/CARTOGRAPHY: Texas, Red River, Childress. GEOLOGY/HYDROLOGY: Sedimentary plateau. AGRICULTURE: Field-pattern, intensive agriculture. Range land. FORESTRY: Deciduous shrub and forest stands along streams and on higher elevations. METEOROLOGY: Cumulus, alto-cumulus, strato-cumulus, cirrus.
3580	11	34 52N	99 07W	60	Normal	51	1754	102	G-20	35	Obl.	GEOGRAPHY/CARTOGRAPHY: Texas, Wichita Falls, Red River. GEOLOGY/HYDROLOGY: Sedimentary plateau. AGRICULTURE: Field pattern, intensive agriculture. Range land. FORESTRY: Deciduous shrub and forest stands along streams. METEOROLOGY: Cumulus, alto-cumulus, strato-cumulus, cirrus.

* NADIR POINT OF CAMERA

A-106

HANDHELD COLOR PHOTOGRAPHS

MAGAZINE D

AS 9-23

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3581	Mar. 11	34 37N	98 22W	62	Normal	51	1754	102	G-20	30	Obl.	GEOGRAPHY/CARTOGRAPHY: Texas, Wichita Falls, Red River. GEOLOGY/HYDROLOGY: Sedimentary plateau. AGRICULTURE: Field pattern, intensive agriculture. Range land. FORESTRY: Deciduous shrub and forest stands along streams. METEOROLOGY: Cumulus, alto-cumulus, strato-cumulus, cirrus.
3582	11	33 53N	97 45W	60	Normal	51	1754	102	G-20	22	Obl.	GEOGRAPHY/CARTOGRAPHY: Texas, Wichita Falls, Red River. GEOLOGY/HYDROLOGY: Sedimentary plateau. AGRICULTURE: Field pattern, intensive agriculture. Range land. FORESTRY: Deciduous shrub and forest along streams. METEOROLOGY: Cumulus, alto-cumulus, strato-cumulus, cirrus.
3583	11	33 10N	97 16W	60	Normal	52	1754	102	G-20	7	Obl.	GEOGRAPHY/CARTOGRAPHY: Texas, Dallas, Ft. Worth, Trinity River. Regional transportation network. GEOLOGY/HYDROLOGY: Sedimentary plateau. AGRICULTURE: Scattered cultivated areas, grazing land around the metropolitan area. FORESTRY: Scattered deciduous forest and shrub. METEOROLOGY: Cumulus, cirrus.
3584	11	32 55N	96 53W	70	Normal	52	1754	102	G-20	12	Obl.	GEOGRAPHY/CARTOGRAPHY: Texas, Dallas, Ft. Worth, Trinity River. Regional transportation network. GEOLOGY/HYDROLOGY: Sedimentary plateau. AGRICULTURE: Scattered cultivation, grazing land around the metropolitan area. FORESTRY: Scattered deciduous shrub and forest stands. METEOROLOGY: Cumulus, cirrus.
3585	11	32 35N	97 33W	10	Normal	52	1754	102	G-20	40	Obl.	GEOGRAPHY/CARTOGRAPHY: Texas, Dallas, Ft. Worth, Trinity River. GEOLOGY/HYDROLOGY: Sedimentary plateau. AGRICULTURE: Scattered cultivated areas, grazing land around the metropolitan area. FORESTRY: Scattered deciduous shrub and forest stands. METEOROLOGY: Cumulus, alto-cumulus, strato-cumulus, cirrus.

* NAIPH POINT OF CAMERA

A-107

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE D
AS 9-23

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3586	Mar. 11	33	08N 96	11W	10	Normal	52	1754	102	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Texas, Dallas, Ft. Worth, Lake Texoma, Lake Tawakoni, Regional Transportation Network. GEOLOGY/HYDROLOGY: Sedimentary plateau. AGRICULTURE: Scattered cultivated areas, extensive grazing areas around the metropolitan region. FORESTRY: Scattered deciduous shrub and forest stands. METEOROLOGY: Small, scattered cumulus.
3587	11	21	40N 71	40W	0	Normal	61	1800	98	50	Obl.	GEOGRAPHY/CARTOGRAPHY: Caicos Islands, Haiti, Ile de la Tortue. GEOLOGY/HYDROLOGY: Volcanics. FORESTRY: Broadleaf hardwood forest stands. METEOROLOGY: Cumulus.
3588	11	12	00N 50	00W	0	Normal	49	1806	107	5	Obl.	GEOGRAPHY/CARTOGRAPHY: Sun-plant, ocean. BOMEX area. METEOROLOGY: Cumulus. OCEANOGRAPHY: Sun-plant.
3589	11	11	25N 48	55W	60	Normal	49	1806	107	10	Obl.	GEOGRAPHY/CARTOGRAPHY: Ocean. BOMEX area. METEOROLOGY: Cumulus.
3590	11	10	45N 47	55W	80	Normal	49	1806	107	10	Obl.	GEOGRAPHY/CARTOGRAPHY: Ocean. BOMEX area. METEOROLOGY: Cumulus.
3591	11	10	00N 46	40W	0	Normal	49	1807	109	10	Obl.	GEOGRAPHY/CARTOGRAPHY: Ocean. BOMEX area. METEOROLOGY: Cumulus.
3592	11	31	40N 159	50W	100	Normal	29	1917	125	100	Obl.	METEOROLOGY: Cyclonic cloud pattern. Cumulus, alto-cumulus.
3593	11	31	45N 159	10W	100	Normal	29	1917	125	100	Obl.	METEOROLOGY: Cyclonic cloud pattern. Cumulus, alto-cumulus.
3594	11				0	Normal				95	Obl.	GEOGRAPHY/CARTOGRAPHY: (Orbits 123-132). METEOROLOGY: Cumulo-nimbus, alto-cumulus, cirrus.
3595												Astronaut Schweickart in Command Module cabin.
3596												Astronaut Scott in Command Module cabin.
3597												Astronaut McDivitt in Command Module cabin.

* NADIR POINT OF CAMERA

A-108

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE D
AS 9-23

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
	Mar.											
3598												Astronaut Schweig at in Command Module cabin.
3599												Astronaut Scott in Command Module cabin.
3600												Astronauts Scott and McDivitt in Command Module cabin.
3601	12	18	19S 122 07E	0	Normal	11	0927	157	P-12	50	Obl.	GEOGRAPHY/CARTOGRAPHY: Australia, town of Broome, Roebuck and Lagrange Bays. GEOLOGY/HYDROLOGY: Sedimentary coastal plain. AGRICULTURE: Scattered cultivation areas. Range land. FORESTRY: Short grassland and scattered shrubform. METEOROLOGY: Cumulus, thick cirrus. OCEANOGRAPHY: Some wave action, ocean depth variations.
3602	12			20	Normal	11	0927	157	P-12	50	Obl.	GEOGRAPHY/CARTOGRAPHY: Australia, Broome GEOLOGY/HYDROLOGY: Sedimentary coastal plain. AGRICULTURE: Range land. FORESTRY: Grassland and scattered stands of shrub form. METEOROLOGY: Cumulus, towering cumulus, thick cirrus.
3603	12			20	Normal	11	0927	157	P-12	55	Obl.	GEOGRAPHY/CARTOGRAPHY: Australia, Broome. GEOLOGY/HYDROLOGY: Sedimentary coastal plain. AGRICULTURE: Scattered cultivated areas. Range land. FORESTRY: Grassland and scattered shrubform. METEOROLOGY: Cumulus, towering cumulus, thick cirrus.
3604	12	26	00N 36 35E	0	Normal	58	1039	97	H-5		Obl.	GEOGRAPHY/CARTOGRAPHY: Africa, Red Sea, Saudi Arabia. GEOLOGY/HYDROLOGY: Highly dissected complex metamorphic plateau. Dendritic drainage. AGRICULTURE: Scattered cultivation along the coast. FORESTRY: Extensive shrubform stands on higher elevations. METEOROLOGY: Cumulus.
3605	12	20	18N 40 21E	0	Normal	61	1040	97	J-6	25	Obl.	GEOGRAPHY/CARTOGRAPHY: Saudi Arabia, Abu Latt Island, Red Sea. GEOLOGY/HYDROLOGY: Sedimentary coastal plain and highly dissected complex metamorphic plateau. Dendritic drainage pattern. AGRICULTURE: Cultivated areas along the coast. FORESTRY: Shrubform stands on higher elevations. METEOROLOGY: Cumulus.

* NADIP POINT OF CAMERA

A-109

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE D

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	AS 9-23		% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.						ONC WAC	No.			
3606	Mar. 12	19	56N 40	49E	50	Normal	61	1040	99	J-6	30	Obl.	GEOGRAPHY/CARTOGRAPHY: Saudi Arabia, Abu Latt Island, Red Sea. GEOLOGY/HYDROLOGY: Sedimentary coastal plain and highly dissected complex metamorphic plateau. AGRICULTURE: Cultivated areas along the coastal region. FORESTRY: Shrubform stands on higher elevations. METEOROLOGY: Cumulus, towering cumulus.
3607	12	16	40N 48	16E	52	Normal	58	1042	99	K-6	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Saudia Arabia, Wadi Hadramawt, Hadramawt Plateau. GEOLOGY/HYDROLOGY: Dendritic drainage. Highly dissected complex metamorphic plateau. AGRICULTURE: Scattered cultivated areas in valleys. FORESTRY: Desert shrubform on higher elevations.
3608	12	16	04N 48	47E	52	Normal	58	1042	99	K-6	0	Obl.	GEOGRAPHY/CARTOGRAPHY: Saudi Arabia, Wadi Hadramawt, Hadramawt Plateau. GEOLOGY/HYDROLOGY: Dendritic drainage. Highly dissected complex metamorphic plateau. AGRICULTURE: Scattered cultivated areas in valleys. FORESTRY: Scattered desert shrubform stands on higher elevations.
3609	12	15	48N 48	56E	52	Normal	58	1042	99	K-6	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Saudi Arabia, Wadi Hadramawt, Hadramawt Plateau. GEOLOGY/HYDROLOGY: Dendritic drainage. Highly dissected complex metamorphic plateau. AGRICULTURE: Sparsely scattered cultivated areas in valleys. FORESTRY: Scattered desert shrubform on higher elevations.
3610	12	15	20N 49	37E	52	Normal	58	1042	99	K-6	0	Vert.	GEOGRAPHY/CARTOGRAPHY: Saudi Arabia, Wadi Hadramawt, Hadramawt Plateau, Gulf of Aden. GEOLOGY/HYDROLOGY: Dendritic drainage. Sedimentary coastal plain and highly dissected complex metamorphic plateau. AGRICULTURE: Scattered cultivated areas along the coastal region. FORESTRY: Scattered desert shrubform. OCEANOGRAPHY: Some wave-action.

* NADIR POINT OF CAMERA

A-110

HANDHELD COLOR PHOTOGRAPHS

MAGAZINE D

AS 9-23

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3611	Mar. 12	12 43N	53 48E	100	Normal	54	1044	103	K-6	45	Obl.	GEOGRAPHY/CARTOGRAPHY: Island of Socotra, Indian Ocean. GEOLOGY/HYDROLOGY: Complex plateau and volcanic highlands. AGRICULTURE: Scattered cultivated areas along the coast. FORESTRY: Hardwood forest stands on higher elevations. METEOROLOGY: Cumulus.
3612	12	12 47N	53 32E	100	Normal	54	1044	103	K-6	45	Vert.	GEOGRAPHY/CARTOGRAPHY: Island of Socotra, Indian Ocean. GEOLOGY/HYDROLOGY: Complex plateau and volcanic highlands. AGRICULTURE: Scattered cultivated areas along the coast. FORESTRY: Hardwood forest stands on higher elevations. METEOROLOGY: Cumulus.
3613	12			35	Normal					75	Obl.	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean. (Orbits 133, 134). METEOROLOGY: Cumulus, thick cirrus.
3614	12			35	Normal					40	Obl.	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean. (Orbits 133, 134). METEOROLOGY: Cumulus, thick cirrus.
3615	12			35	Normal					30	Obl.	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean. (Orbits 133, 134). METEOROLOGY: Cumulus, cirrus.
3616	12			35	Normal					30	Obl.	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean. (Orbits 133, 134). METEOROLOGY: Cumulus, cirrus.
3617	12			0	Normal	55	1203	105		50	Obl.	GEOGRAPHY/CARTOGRAPHY: Morocco, Coast off Agadir. GEOLOGY/HYDROLOGY: Coastal plain and complex metamorphic plateau. AGRICULTURE: Scattered cultivation along the coastal area. FORESTRY: Shrubform on higher elevations. METEOROLOGY: Anticyclonic cloud pattern, cumulus, alto-cumulus, cirrus.
3618												Partial frame.

* NADIR POINT OF CAMERA

A-111

HANDHELD COLOR PHOTOGRAPHS MAGAZINE F

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	AS 9-24		% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.						ONC WAC	No.			
3620	Mar												Command Module
3621													Command Module
3622													Command Module
3623													Command Module
3624													Command Module
3625													Command Module
3626													Command Module
3627													Command Module
3628													Command Module
3629													Command Module
3630													Command Module
3631													Command Module
3632													Command Module
3633													Command Module, horizon
3634													Command Module, horizon
3635													Command Module
3636													Command Module
3637													Command Module
3638													Command Module
3639													Command Module
3640													Command Module through window
3641													Command Module through window
3642													Command Module

* NADIR POINT OF CAMERA

A-112

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE F
AS 9-24

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
	Mar											Command Modu
3643												Command Module
3644												Command Module
3645												Command Module
3646												Command Module
3647												Command Module
3648												Command Module
3649												Command Module
3650												Command Module
3651												Command Module
3652												Command Module
3653												<u>GEOGRAPHY/CARTOGRAPHY</u> : Command Module, high oblique over New Mexico, Gulf of California, Colorado River Delta, Grand Desert, Yuma, Chocolate Mountains, Coconino Plateau. <u>METEOROLOGY</u> : Alto-cumulus undulatus.
3654										70		<u>GEOGRAPHY/CARTOGRAPHY</u> : Command Module, high oblique showing Gulf of California, Colorado River Delta, Grand Desert, Yuma, and the Coconino Plateau, (Orbit 63). <u>METEOROLOGY</u> : Alto-cumulus undulatus.
3655										70		<u>GEOGRAPHY/CARTOGRAPHY</u> : Command Module, high oblique showing Rio Grande, Gulf of California and Grand Desert, Coconino Plateau, (Orbit 63). <u>METEOROLOGY</u> : Alto-cumulus undulatus.
3656										75		<u>GEOGRAPHY/CARTOGRAPHY</u> : Command Module, high oblique showing Rio Grande, White Sands, San Andres Mountains, Tularosa Valley into Arizona and Southern California, Gulf of California is visible, (Orbit 63). <u>METEOROLOGY</u> : Alto-cumulus undulatus.

* RADII POINT OF CAMERA

A-113

HANDHELD COLOR PHOTOGRAPHS

MAGAZINE F

AS 9-24

Frame No.	Date	Latitude deg min.	Longitude deg min.	Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
3657	Mar									70		GEOGRAPHY/CARTOGRAPHY: Command Module, high oblique showing Rio Grande, White Sands, Capitan Mountains, San Andreas Mountains into Arizona and southern California, Gulf of California is visible, (Orbit 52). METEOROLOG: Alto-cumulus undulatus.
3658										70		GEOGRAPHY/CARTOGRAPHY: Command Module, high oblique showing Pecos Valley, Rio Grande, White Sands, Inularosa Valley into Arizona, Gulf of California and Coconino Plateau are visible, (Orbit 53). METEOROLOG: Alto-cumulus undulatus.
3659										60		GEOGRAPHY/CARTOGRAPHY: Command Module, high oblique showing the Estacado Plains of Texas and New Mexico, Pecos Valley, Mesquero Escarpment and White Sands, Lubbock is visible, (Orbit 53). METEOROLOG: Alto-cumulus undulatus, cirro-cumulus, alto-stratus.
3660										60		GEOGRAPHY/CARTOGRAPHY: Command Module, high oblique showing Estacado Plains of Texas and New Mexico, Lubbock, Caprock Escarpment, and the Pecos Valley, (Orbit 63). METEOROLOG: Cirro-cumulus, alto-cumulus, cirrus, alto-cumulus undulatus over southwestern United States.
3661												Small portion of horizon
3662												Small portion of horizon
3663												Small portion of horizon
3664												Small portion of horizon
3665												Small portion of horizon
3666												Small portion of horizon
3667	9			0	Normal					30	Obl.	GEOGRAPHY/CARTOGRAPHY: (Orbit 86). METEOROLOG: Cirro-cumulus, cumulus humilis. CARTOGRAPHY: Sun glint, wave pattern discernable.

* NADIR POINT OF CAMERA

A-114

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE F
AS 9-24

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3668	Mar 9			0	Normal					90	Vert.	GEOGRAPHY/CARTOGRAPHY: (Orbit 86). METEOROLOGY: Squall line, cumulo-nimbus, alto-cumulus, cumu congestus with fracto stratus.
3669	9			0	Dark					0	Obl.	GEOGRAPHY/CARTOGRAPHY: India, Nepal, Himalayan Mountains, (Orbit 86). GEOLOGY/HYDROLOGY: Complex fold mountains. FORESTRY: Needleleaf evergreen forests. METEOROLOGY: Snow cover in mountain areas.
3670	9	12 00N	43 56E	0	Normal	51	1221	89	K-6	10	Obl.	GEOGRAPHY/CARTOGRAPHY: Yemen, Aden Protectorate, French Somaliland, Ethiopia, Somali Republic, Red Sea, Gulf of Aden, Cities of Al Hudaydah, Zabid, Taiz, Shaykh Uthman, and Djibouti. GEOLOGY/HYDROLOGY: Sedimentary coastal plain and dissected complex plateau. FORESTRY: Scattered deciduous shrubform. METEOROLOGY: Cumulus humilis, cumulus fractus, cumulo-nimbus. OCEANOGRAPHY: Depth variations visible in nearshore zone of the Red Sea.
3671	9	12 00N	43 28E	0	Normal	51	1221	89	K-6	10	Obl.	GEOGRAPHY/CARTOGRAPHY: Yemen, Aden Protectorate, French Somaliland, Ethiopia, Somali Republic, Red Sea, Gulf of Aden, Cities of Zabid, Taiz, Shaykh Uthman, Djibouti, and Berbera. GEOLOGY/HYDROLOGY: Sedimentary coastal plain and dissected complex plateau. FORESTRY: Scattered deciduous shrubform. METEOROLOGY: Cumulus humilis, cumulo-nimbus, alto-cumulus, cumulus fractus. OCEANOGRAPHY: Depth variations visible in the nearshore zone of the Red Sea.
3672	9	13 23N	45 17E	0	Normal	51	1221	90	K-6	05	Obl.	GEOGRAPHY/CARTOGRAPHY: Yemen, Aden Protectorate, Somali Republic, Gulf of Aden, Cities of Lahj and Shaykh Uthman. GEOLOGY/HYDROLOGY: Sedimentary coastal plain and dissected complex plateau. FORESTRY: Scattered deciduous shrubform. METEOROLOGY: Cirro-cumulus, cumulus humilis, cumulo-nimbus, cumulus fractus. OCEANOGRAPHY: Some bottom topography visible in nearshore zone.

* NADIR POINT OF CAMERA

A-115

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3673	Mar 9	13 20N	46 07E	0	Normal	51	1221	90	K-6	7	Obl.	GEOGRAPHY/CARTOGRAPHY: Aden Protectorate, Yemen, Somali Republic, Gulf of Aden. GEOLOGY/HYDROLOGY: Sedimentary coastal plain and dissected complex plateau. FORESTRY: Scattered deciduous shrubform. METEOROLOGY: Cirro-cumulus, cumulus humilis, OCCASIONALLY: Nearshore depth variations visible.
3674	9	13 55N	47 18E	0	Normal	51	1221	90	K-6	2	Obl.	GEOGRAPHY/CARTOGRAPHY: Aden Protectorate, Somali Republic, Gulf of Aden. GEOLOGY/HYDROLOGY: Sedimentary coastal plain and dissected complex plateau. FORESTRY: Scattered deciduous shrubform. METEOROLOGY: Cirro-cumulus.
3675	9	11 40N	51 15E	0	Normal	51	1221	90	K-6	2	Obl.	GEOGRAPHY/CARTOGRAPHY: Africa, Somali Republic, Indian Ocean, Gulf of Aden, Abd a Kuri Island, Cape Guardafui, Mount Hoda, Hafun Peninsula. GEOLOGY/HYDROLOGY: Narrow and discontinuous sedimentary coastal plain, complex plateau. FORESTRY: Scattered shrubform. METEOROLOGY: Cumulus fractus, cirro-cumulus
3676	9	11 15N	49 00E	0	Normal	51	1221	91	K-6	5	Obl.	GEOGRAPHY/CARTOGRAPHY: Africa, Somali Republic, Gulf of Aden, Mounts Bahala, Al Madu and Surud Ad, Villages of Bosaso, Elayu, and Bander Harshau. GEOLOGY/HYDROLOGY: Complex dissected plateau. FORESTRY: Scattered shrubform. METEOROLOGY: Cirro-cumulus.
3677	9	10 15N	51 21E	0	Normal	51	1221	91	K-6	10	Obl.	GEOGRAPHY/CARTOGRAPHY: Africa, Somali Republic, Hafun Peninsula, Point Binnah, Villages of Hordio and Hafun. GEOLOGY/HYDROLOGY: Narrow and discontinuous sedimentary coastal plain and dissected complex plateau. FORESTRY: Scattered shrubform. METEOROLOGY: Cirro-cumulus.

* NADIR POINT OF CAMERA

A-116

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE F
AS 9-24

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.									
3678	Mar 9	31 15N	4 45W	0	Normal	35	1342	90	K-4	13	Obl.	GEOGRAPHY/CARTOGRAPHY: Africa, Morocco, Algeria, Erg J. Raoui, Atlas Mountains. GEOLOGY/HYDROLOGY: Complex metamorphic plateau. FORESTRY: Scattered shrubform. METEOROLOGY: Cirrus fibratus, alto-stratus, snow cover in high elevations of mountains.
3679	9	12 09N	32 45E	0	Normal	30	1351	91	K-5	9	Obl.	GEOGRAPHY/CARTOGRAPHY: Africa, Sudan, Blue and White Nile Rivers, Towns of Kosti, Ed Dueim, Wad Medina and Er Roseires. GEOLOGY/HYDROLOGY: Flood plain adjoined by complex plateau. AGRICULTURE: Field patterns visible along Blue Nile River. FORESTRY: Shrubform sparse to very dense with intermittent low grass savanna. METEOROLOGY: Alto-cumulus.
3680	9			0	Normal					65	Obl.	GEOGRAPHY/CARTOGRAPHY: Limb shot (Orbit 90,91). METEOROLOGY: Nimbo-stratus, cumulus congestus, alto-stratus.
3681	9			0	Normal					30	Obl.	GEOGRAPHY/CARTOGRAPHY: Limb shot. METEOROLOGY: Cumulo-nimbus with anvil, cumulus congestus, cumulus humilis.

* NADIR POINT OF CAMERA

A-117

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE G

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	AS 9-25		% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.						WAC	ONC			
3682	Mar 8	12 10N	61 50W	50	Dark	43	1925	123	K-27		10	Vert.	GEOGRAPHY/CARTOGRAPHY: Windward Islands, Island of St. John, south, Point Salines, City of St. John, Barbados, Grenada Island. GEOLOGY/HYDROLOGY: Volcanic islands with adjacent coral reefs. FORESTRY: Tropical rainforest (dense) METEOROLOGY: Cumulus cloud build-up windward side of Grenada Island.
3683	8	19 02N	98 48W	50	Normal	55	2052	112	J-24		65	Obl.	GEOGRAPHY/CARTOGRAPHY: Mexico, looking east southeast of Mexico City, Popocatepetl Volcano. GEOLOGY/HYDROLOGY: Volcanic mountains and complex mountain region with alluvial deposits. FORESTRY: Sparse desert shrubform, some broad-leaf at higher elevations, smoke plumes visible. METEOROLOGY: Cirro-cumulus, cumulus humilis, nimbo-stratus.
3684	8	19 02N	98 32W	50	Normal	55	2052	112	J-24		55	Obl.	GEOGRAPHY/CARTOGRAPHY: Mexico, near Puebla, Popocatepetl Volcano. GEOLOGY/HYDROLOGY: Volcanic and complex mountain region with alluvial deposits. FORESTRY: Desert shrubform with some broad-leaf evergreen at higher elevations, smoke plumes visible. METEOROLOGY: Cumulus humilis, nimbo-stratus.
3685	8	19 12N	98 06W	50	Normal	55	2052	113	J-24		45	Vert.	GEOGRAPHY/CARTOGRAPHY: Mexico, City of Puebla, Popocatepetl Volcano. GEOLOGY/HYDROLOGY: Volcanic and complex mountain region. FORESTRY: Desert shrubform with some broad-leaf evergreen at higher elevations, smoke plumes at higher elevations. METEOROLOGY: Cumulus humilis, nimbo-stratus.
3686	8	19 00N	98 05W	50	Normal	55	2052	113	J-24		40	Vert.	GEOLOGY/HYDROLOGY: Volcanic and complex hills and mountains. FORESTRY: Desert shrubform. METEOROLOGY: Cumulus humilis, nimbo-stratus.

* HADIR POINT OF CAMERA

A-118

HANDHELD COLOR PHOTOGRAPHS
MAGAZINE G
AS 9-25

Frame No.	Date	Principal Point Latitude deg. min.	Longitude deg. min.	Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Viewing Mode	Description
3687 3688 <i>bad</i>	Mar 8	16 09N	94 20W	0	Normal	55	2052	115	J-25	45	Vert.	<u>GEOGRAPHY/CARTOGRAPHY</u> : Mexico, Gulf of Tehuantepec, Superior, Inferior and Mar Muerto Lagoons, Village of Ixmiquatan. <u>GEOLOGY/HYDROLOGY</u> : Coastal plain, complex mountains and rugged hills. <u>AGRICULTURE</u> : Some field patterns along coast. <u>FORESTRY</u> : Desert shrubform with broadleaf evergreen at higher elevations. <u>METEOROLOGY</u> : Cirro-cumulus, alto-cumulus. (Double Exposure)
3689	8	14 50N	90 30W	50	Normal	55	2053	116	K-25	80	Vert.	<u>GEOGRAPHY/CARTOGRAPHY</u> : Guatemala, Sierra Madre Mountains near Guatemala City. <u>GEOLOGY/HYDROLOGY</u> : Complex mountain region. <u>FORESTRY</u> : Mixed broadleaf deciduous and needleleaf evergreen. <u>METEOROLOGY</u> : Cirro-cumulus, alto-cumulus, cumulus congestus cumulo nimbus.
3690	8	14 38N	90 25W	50	Normal	55	2053	116	K-25	85	Vert.	<u>GEOGRAPHY/CARTOGRAPHY</u> : Guatemala, Sierra Madre Mountains near Guatemala City. <u>GEOLOGY/HYDROLOGY</u> : Complex mountain region. <u>FORESTRY</u> : Mixed broadleaf deciduous and needleleaf evergreen. <u>METEOROLOGY</u> : Cirro-cumulus, alto-cumulus, cumulus congestus.
3691	8	13 20N	87 51W	0	Normal	45	2054	118	K-25	30	Vert.	<u>GEOGRAPHY/CARTOGRAPHY</u> : El Salvador, Honduras, Nicaragua, Gulf of Fonseca, Point Amapala, Point Cosiguina, Meanguera Island, Village of Amapala. <u>GEOLOGY/HYDROLOGY</u> : Complex hills and rugged coastal plain. <u>AGRICULTURE</u> : Some cultivation along coast. <u>FORESTRY</u> : Semi-deciduous broadleaf forests. <u>METEOROLOGY</u> : Cirrus fibratus, cumulus humilis, cumulus congestus. <u>OCEANOGRAPHY</u> : Some submarine features and current patterns visible within the Gulf of Fonseca.

- 355 -

MAGAZINE G
AS 9-25

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun. Elevation	GMT	Altitude n. mi.	ONC WAC No.		% Cloud Cover	Viewing Mode	Description
		Latitude deg. min.	Longitude deg. min.										
3692	Mar 8	09 00N	79 23W	0	Dark	40	2056	120	K-26	40		Vert.	GEOGRAPHY/CARTOGRAPHY: Panama Canal Zone, Bay of Panama, Point Chame, Panama City, Pedro Gonzalez, San Jose and Rey Islands. GEOLOGY/HYDROLOGY: Ruges coastal plain and hill region. ECOREGISTRY: Broadleaf evergreen forests, smoke visible. METEOROLOGY: Haze from smoke, cirro-cumulus, cumulus humilis, cumulus congestus.
3693	8	01 15N*	71 50W	10	Dark	35	2059	137	L-26	90		Vert.	GEOGRAPHY/CARTOGRAPHY: South America, Area near Bogota, Columbia. METEOROLOGY: Build-up of large cumulo-nimbus on windward side of Andes Mountains, cumulus congestus, the large thunderhead is surrounded by false cirrus
3694	8	00 55N*	71 25W	10	Dark	35	2059	137	L-26	80		Vert.	GEOGRAPHY/CARTOGRAPHY: South America, Area southeast of Bogota, Columbia. GEOLOGY/HYDROLOGY: Meandering river system. METEOROLOGY: Cirro-stratus, cumulus humilis, cumulus congestus, cumulo-nimbus.
3695	8	00 30N*	71 00W	10	Dark	35	2100	138	L-26	40		Vert.	GEOGRAPHY/CARTOGRAPHY: South America, Area southeast of Bogota, Columbia. HYDROLOGY: Meandering river system. METEOROLOGY: Cirrus fibratus, cumulus humilis, cumulus congestus.

* NADIR POINT OF CAMERA

A-120

SO-65 MULTISPECTRAL PHOTOGRAPHS
AS 9-26

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. m.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3696	Mar 8				Normal	53	2000	105			GEOGRAPHY/CARTOGRAPHY: Limb, oblique. METEORLOGY: Cirrus, cumulus, alto-cumulus.
3697	8				Normal	53	2000	105			GEOGRAPHY/CARTOGRAPHY: Limb, oblique. METEORLOGY: Cumulus fractus, cirrus spissatus, alto-cumulus.
3698	8	33 05N	114 53W	80	Normal	53	2000	105	G-18	5	GEOGRAPHY/CARTOGRAPHY: California, Salton Sea, Imperial Valley and El Centro, Mexico, Mexicali and San Luis, Arizona, Yuma and Gila, Colorado River. GEOLOGY/HYDROLOGY: Basin and Range Province of quaternary alluvial and tertiary volcanic ranges. AGRICULTURE: Very pronounced field patterns, easily definable, agriculture primary land use in the region, highly irrigated. FORESTRY: Desert shrubform, predominantly at higher elevations. METEORLOGY: Cumulus humilis.
3699	8	33 05N	114 50W	80	Normal	53	2000	105	G-18	5	GEOGRAPHY/CARTOGRAPHY: California, Imperial Valley and El Centro, Mexico, Mexicali and San Luis, Arizona, Yuma and Gila, Colorado River. GEOLOGY/HYDROLOGY: Basin and Range Province of quaternary alluvium and tertiary volcanics. AGRICULTURE: Very pronounced field patterns, easily definable, agriculture is the major land use in area. FORESTRY: Desert shrubform. METEORLOGY: Cumulus humilis.
3700	8	33 04N	114 45W	80	Normal	53	2000	105	G-18	5	GEOGRAPHY/CARTOGRAPHY: California, Imperial Valley and El Centro, Mexico, Mexicali and San Luis, Arizona, Yuma and Gila, Colorado River. GEOLOGY/HYDROLOGY: Basin and Range Province. AGRICULTURE: Extensive irrigated cultivation. FORESTRY: Desert shrubform. METEORLOGY: Cumulus humilis.

* NADIR POINT OF CAMERA

A-121

SO-65 MULTISPECTRAL PHOTOGRAPHS

AS 9-26

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3701	Mar 8	33 03N	114 26W	80	Normal	53	2000	105	0-18	5	GEOGRAPHY/CARTOGRAPHY: Arizona, Yuma and Cibola, Mexico, San Luis, Colorado and Gila Rivers, Gila Mountains, Imperial Reservoir. GEOLOGY/HYDROLOGY: Basin and Range Province quaternary alluvium and intermittent drainage. AGRICULTURE: Extensive irrigated cultivation. FORESTRY: Desert shrubform. METEOROLOGY: Cumulus humilis.
3702	8	32 55N	113 56W	80	Normal	53	2000	105	0-18	5	GEOGRAPHY/CARTOGRAPHY: Arizona, Yuma and Cibola, Colorado and Gila Rivers, Gila Mountains, Imperial Reservoir, Castle Dome Peak. GEOLOGY/HYDROLOGY: Basin and Range Province. AGRICULTURE: Extensive irrigated cultivation. FORESTRY: Desert shrubform. METEOROLOGY: Cumulus humilis.
3703	8	32 53N	113 31W	80	Normal	53	2001	105	0-18	7	GEOGRAPHY/CARTOGRAPHY: Arizona, East of Yuma and Gila Bend, Gila River, Kofa and Mohawk Mountains, Villages of Kofa and Hott. GEOLOGY/HYDROLOGY: Basin and Range Province, with quaternary alluvium. AGRICULTURE: Heavy cultivation along Gila River. FORESTRY: Scattered desert shrubform. METEOROLOGY: Cumulus humilis, cumulus congestus.
3704	8	32 52	113 03W	80	Normal	53	2001	105	0-18	10	GEOGRAPHY/CARTOGRAPHY: Arizona, Mohawk, Gila Bend, and Maricopa Mountains, Gila River, Village of Gila Bend. GEOLOGY/HYDROLOGY: Basin and Range Province, with quaternary alluvium. AGRICULTURE: Moderate to heavy cultivation along Gila River, scattered field patterns throughout river plain. FORESTRY: Scattered desert shrubform. METEOROLOGY: Cumulus humilis, cumulus congestus.

* NADIR POINT OF CAMERA

A-122

SO-65 MULTISPECTRAL PHOTOGRAPHS

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	AS 9-26 GMT	Altitude n. mi.	ONC. WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3705	Mar 8	32 44N	112 26W	80	Normal	53	2001	105	G-18	20	<u>GEOGRAPHY/CARTOGRAPHY</u> : Arizona, Gila Bend, Casa Grande and south of Phoenix, Maricopa and Gila Bend Mountains. <u>GEOLOGY/HYDROLOGY</u> : Quaternary alluvium of Basin and Range. <u>AGRICULTURE</u> : Moderate cultivation becoming more intense along river. <u>FORESTRY</u> : Scattered desert shrubform. <u>METEOROLOGY</u> : Cumulus humilis, cumulus congestus.
3706	8	32 41N	111 50W	80	Normal	53	2001	105	G-18	35	<u>GEOGRAPHY/CARTOGRAPHY</u> : Arizona, Casa Grande, Pinal Mountains, Maricopa Mountains. <u>GEOLOGY/HYDROLOGY</u> : Quaternary alluvium of Basin and Range. <u>AGRICULTURE</u> : Moderate cultivation, some field patterns not in production. <u>FORESTRY</u> : Scattered desert shrubform. <u>METEOROLOGY</u> : Cumulus humilis, cumulus congestus.
3707	8	32 40N	111 20W	80	Normal	53	2001	105	G-18	45	<u>GEOGRAPHY/CARTOGRAPHY</u> : Arizona, Casa Grande, Pinal Mountains. <u>GEOLOGY/HYDROLOGY</u> : Quaternary alluvium of Basin and Range. <u>AGRICULTURE</u> : Extensive cultivation, some field patterns not in production. <u>FORESTRY</u> : Scattered shrubform. <u>METEOROLOGY</u> : Cumulus humilis, cumulus congestus.
3708	8	32 35N	111 03W	80	Normal	53	2001	105	G-19	55	<u>GEOGRAPHY/CARTOGRAPHY</u> : Arizona, Tortilla Mountains. <u>GEOLOGY/HYDROLOGY</u> : Quaternary alluvium, Basin and Range Province. <u>AGRICULTURE</u> : Extensive cultivation, some field patterns not in production. <u>FORESTRY</u> : Scattered desert shrubform. <u>METEOROLOGY</u> : Cumulus humilis, cumulus congestus.
3709	8	32 33N	110 23W	80	Normal	53	2001	105	G-19	75	<u>GEOGRAPHY/CARTOGRAPHY</u> : Arizona, Tucson, Tortilla and Tortilla Mountains, Santa Catalina Mountains. <u>GEOLOGY/HYDROLOGY</u> : Basin and Range Province. <u>AGRICULTURE</u> : Extensive cultivation. <u>METEOROLOGY</u> : Cumulus congestus, cumulus humilis.

* NADIR POINT OF CAMERA

A-123

SO-65 MULTISPECTRAL PHOTOGRAPHS

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	AS 9-26 GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3710	Mar 8	32 25N	110 01W	80	Normal	53	2001	105	G-19	75	GEOGRAPHY/CARTOGRAPHY: Arizona, Willcox Lake, Galiuro Mountains. GEOLOGY/HYDROLOGY: Basin and Range Province. METEOROLOGY: Cumulus congestus, cumulus humilis.
3711	8	32 20N	109 27W	80	Normal	53	2001	105	G-19	75	GEOGRAPHY/CARTOGRAPHY: Arizona, Willcox Lake, Galiuro Mountains, Aravaipa Valley. GEOLOGY/HYDROLOGY: Basin and Range Province. METEOROLOGY: Cumulus congestus, cumulus humilis.
3712	8	32 15N	109 00W	80	Normal	53	2001	105	H-23	80	GEOGRAPHY/CARTOGRAPHY: New Mexico and Mexico border. GEOLOGY/HYDROLOGY: Basin and Range Province. METEOROLOGY: Cumulus congestus, cumulus humilis.
3713	8	32 10N	108 30W	80	Normal	53	2002	105	H-23	80	GEOGRAPHY/CARTOGRAPHY: New Mexico and Mexico border. GEOLOGY/HYDROLOGY: Basin and Range Province. METEOROLOGY: Cumulus congestus, cumulus humilis.
3714	8	32 05N	107 57W	80	Normal	53	2002	105	H-23	70	GEOGRAPHY/CARTOGRAPHY: New Mexico and Mexico border, south of Deming. GEOLOGY/HYDROLOGY: Basin and Range Province. METEOROLOGY: Cumulus congestus, cumulus humilis, cumulo-nimbus.
3715	8	32 00N	107 37W	80	Normal	53	2002	105	H-23	70	GEOGRAPHY/CARTOGRAPHY: Mexico, Texas border. GEOLOGY/HYDROLOGY: Basin and Range. METEOROLOGY: Cumulus congestus, cumulo-nimbus, cumulus humilis.
3716	8	31 57N	107 15W	80	Normal	53	2002	105	H-23	60	GEOGRAPHY/CARTOGRAPHY: Mexico, Texas border. GEOLOGY/HYDROLOGY: Basin and Range. METEOROLOGY: Cumulo-nimbus, cirrus, cumulus congestus, cumulus humilis.
3717	8	31 52N	106 53W	80	Normal	53	2002	105	H-23	50	GEOGRAPHY/CARTOGRAPHY: Texas, Rio Grande Valley, and Quitman Mountains, Mexico, Sierra San Martin Del Borracho. GEOLOGY/HYDROLOGY: Central Plains. METEOROLOGY: Cumulus congestus, cumulus humilis, cirrus.

* NADIR POINT OF CAMERA

A-124

SO-65 MULTISPECTRAL PHOTOGRAPHS
AS 9-26

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3718	Mar 8	31 44N	106 22W	80	Normal	53	2002	105	H-23	40	GEOGRAPHY/CARTOGRAPHY: Texas, Rio Grande Valley, El Paso, Ciudad Juarez. GEOLOGY/HYDROLOGY: Central Plains. AGRICULTURE: Field patterns visible through clouds along Rio Grande River. FORESTRY: Desert shrubform. METEOROLOGY: Cumulus humilis, cumulus congestus.
3719	8	31 39N	105 54W	80	Normal	53	2002	105	H-23	40	GEOGRAPHY/CARTOGRAPHY: Texas, Rio Grande Valley, Van Horn, Sierra Diablo. GEOLOGY/HYDROLOGY: Central Plains. AGRICULTURE: Field patterns visible along Rio Grande River. FORESTRY: Desert shrubform. METEOROLOGY: Cumulus humilis, cumulus congestus.
3720	8	31 35N	105 24W	80	Normal	53	2002	105	H-23	30	GEOGRAPHY/CARTOGRAPHY: Texas, Van Horn and Pecos, Guadalupe Mountains. GEOLOGY/HYDROLOGY: Complex mountains and Central Plains. AGRICULTURE: Field patterns visible along Rio Grande River. FORESTRY: Desert shrubform. METEOROLOGY: Cumulus humilis, cumulus congestus, cumulo-nimbus.
3721	8	31 29N	104 55W	80	Normal	53	2002	105	H-23	25	GEOGRAPHY/CARTOGRAPHY: Texas, Van Horn, Pecos and Red Bluff Lake, Guadalupe Mountains. GEOLOGY/HYDROLOGY: Complex mountains and plains region. AGRICULTURE: Some field patterns visible along Rio Grande River. FORESTRY: Desert shrubform. METEOROLOGY: Cumulus humilis, cumulus congestus, cumulo-nimbus.
3722	8	31 34N	104 29W	80	Normal	53	2002	105	H-23	20	GEOGRAPHY/CARTOGRAPHY: Texas, Pecos and Red Bluff Lake, Pecos River. GEOLOGY/HYDROLOGY: Complex mountains and plains region. FORESTRY: Desert shrubform. METEOROLOGY: Cumulus humilis, cumulus congestus, cumulo-nimbus.

* NADIR POINT OF CAMERA

A-125

SO-65 MULTISPECTRAL PHOTOGRAPHS

AS 9-25

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	OMC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3723	Mar 8	29 40N	97 15W	80	Normal	54	2005	105	H-23	0	<u>GEOGRAPHY/CARTOGRAPHY</u> : Texas, Austin, Port Lavaca, and Beeville. <u>GEOLOGY/HYDROLOGY</u> : Central and coastal plain. <u>AGRICULTURE</u> : Heavy field pattern concentration, little crop production. <u>FORESTRY</u> : Desert shrubform, some non-commercial conifers at higher elevations.
3724	8	29 26N	96 49W	80	Normal	54	2005	105	H-24	0	<u>GEOGRAPHY/CARTOGRAPHY</u> : Texas, Port Lavaca and Matagorda Bay, Victoria. <u>GEOLOGY/HYDROLOGY</u> : Coastal plain region. <u>AGRICULTURE</u> : Scattered field patterns but some areas of intense cultivation, in this area, most fields lay fallow during this particular season. <u>FORESTRY</u> : Dense to semi-dense, mixed hardwood forests with range grasses. Most timber along avenues of drainage. <u>OCEANOGRAPHY</u> : Coastal sediment pattern.
3725	8	29 22N	96 24W	80	Normal	54	2005	105	H-25	0	<u>GEOGRAPHY/CARTOGRAPHY</u> : Texas, Matagorda and Eagle Lake, Bay City, Houston. <u>GEOLOGY/HYDROLOGY</u> : Coastal plain region. <u>AGRICULTURE</u> : Scattered field patterns, but some areas of intense cultivation. <u>FORESTRY</u> : Dense to semi-dense mixed hardwood forests with range grasses. Most forest type vegetation along drainage. <u>OCEANOGRAPHY</u> : Gulf of Mexico, outflowing stream sediments indicate a southerly longshore current.
3726	8	29 16N	96 08W	80	Normal	54	2005	105	H-24	1	<u>GEOGRAPHY/CARTOGRAPHY</u> : Texas, Matagorda, Eagle Lake and Freeport, Houston, Bay City, Brazos River. <u>GEOLOGY/HYDROLOGY</u> : Coastal plain region. <u>AGRICULTURE</u> : Congested field pattern system, small amount in cultivation, however, most fields are fallow during this season. <u>FORESTRY</u> : Mixed intermediate hardwood forests, mostly along drainage. <u>OCEANOGRAPHY</u> : Gulf of Mexico, outflowing stream sediments indicate southerly longshore currents.

* NADIR POINT OF CAMERA

A-126

SO-65 MULTISPECTRAL PHOTOGRAPHS
AS 9-26

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. ml.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3727	Mar 8	29 07N	95 43W	80	Normal	54	2005	105	H-24	2	GEOGRAPHY/CARTOGRAPHY: Texas, Matagorda, Galveston Bay, and Houston, Brazos River, Galveston. GEOLOGY/HYDROLOGY: Coastal plain region. AGRICULTURE: Heavy concentration of field patterns, about half under cultivation. FORESTRY: Mixed, intermediate hardwood forests predominately along drainage, coastal grasses. METEOROLOGY: Cirrus fibratus. OCEANOGRAPHY: Gulf of Mexico, outflowing stream sediments indicate southerly longshore current pattern, Houston Ship Channel.
3728	8	29 04N	95 24W	80	Normal	54	2005	105	H-24	2	GEOGRAPHY/CARTOGRAPHY: Texas, Matagorda, Galveston Bay, Houston, Galveston and Freeport, Brazos River. GEOLOGY/HYDROLOGY: Coastal plain region. AGRICULTURE: Heavy concentration of field patterns, mostly laying fallow. FORESTRY: Mixed, intermediate hardwood forests, predominantly along drainage, range grasses. METEOROLOGY: Cirrus fibratus. OCEANOGRAPHY: Gulf of Mexico, outflowing stream sediments indicate southerly longshore current pattern, Houston Ship Channel.
3729	8	28 42N	94 54W	80	Normal	54	2005	105	H-24	5	GEOGRAPHY/CARTOGRAPHY: Texas, Galveston Bay, Galveston and Freeport. GEOLOGY/HYDROLOGY: Coastal plain region. AGRICULTURE: Heavy concentration of field patterns. FORESTRY: Mixed hardwood forests, primarily along drainage, range grasses and coastal marsh grasses. METEOROLOGY: Cirrus fibratus, alto-cumulus. OCEANOGRAPHY: Gulf of Mexico, outflowing stream sediments indicate southerly longshore current pattern.
3730	8				Normal					99	METEOROLOGY: Cumulus and alto-cumulus.

SO-65 MULTISPECTRAL PHOTOGRAPHS

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3731	Mar 9	33 05N	118 33W	60	Normal	45	1802	106	C-18	15	<p><u>GEOGRAPHY/CARTOGRAPHY</u>: California, San Clemente, Santa Catalina and Santa Barbara Islands, San Pedro Bay, Long Beach.</p> <p><u>GEOLOGY/HYDROLOGY</u>: Island complex, mountains and coastal plain region.</p> <p><u>METEOROLOGY</u>: Cumulus humilis, cumulus congestus, cumulo-nimbus, cirro-cumulus.</p> <p><u>OCEANOGRAPHY</u>: Pacific Ocean, sediment outflows from Laguna Beach, Newport Beach, Huntington Beach and Long Beach.</p>
3732	9	33 09N	117 50W	60	Normal	45	1802	106	C-18	20	<p><u>GEOGRAPHY/CARTOGRAPHY</u>: California, San Clemente and Santa Catalina Islands, San Pedro Bay, northern San Diego, Oceanside.</p> <p><u>GEOLOGY/HYDROLOGY</u>: Complex mountain region.</p> <p><u>AGRICULTURE</u>: Scattered field patterns on mainland.</p> <p><u>FORESTRY</u>: Dense to semi-dense shrubform of mixed species</p> <p><u>METEOROLOGY</u>: Cumulus humilis, cumulus congestus, cumulo-nimbus, cirro-cumulus.</p> <p><u>OCEANOGRAPHY</u>: Pacific Ocean, sediment outflows visible.</p>
3733	9	33 13N	117 07W	60	Normal	45	1802	106	C-18	40	<p><u>GEOGRAPHY/CARTOGRAPHY</u>: California, Santa Ana and Laguna Mountains, Lake Hemet, San Diego and Oceanside.</p> <p><u>GEOLOGY/HYDROLOGY</u>: Complex mountain region.</p> <p><u>AGRICULTURE</u>: Scattered field patterns.</p> <p><u>FORESTRY</u>: Dense to semi-dense shrubform.</p> <p><u>METEOROLOGY</u>: Cumulus congestus, cumulus humilis, cumulo-nimbus, cirro-cumulus.</p> <p><u>OCEANOGRAPHY</u>: Pacific Ocean, sediment outflows visible from the major cities.</p>
3734	9	33 20N	116 36W	60	Normal	45	1802	106	C-18	30	<p><u>GEOGRAPHY/CARTOGRAPHY</u>: California, San Diego and Salton Sea, Santa Rosa Mountains, Coachella Valley, Indio and Palm Springs.</p> <p><u>GEOLOGY/HYDROLOGY</u>: Complex mountains and alluvial plains.</p> <p><u>AGRICULTURE</u>: Scattered field patterns along coast.</p> <p><u>FORESTRY</u>: Deciduous shrubform with some conifers at higher elevations.</p> <p><u>METEOROLOGY</u>: Cumulo-nimbus, cumulus congestus, cumulus humilis.</p>

* NADIR POINT OF CAMERA

A-128

SO-65 MULTISPECTRAL PHOTOGRAPHS
AS 9-26

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3735	Mar 9	33 22N	116 04W	60	Normal	45	1802	106	G-18	40	GEOGRAPHY/CARTOGRAPHY: California, Salton Sea and Imperial Valley, Coachella Valley, Santa Rosa Mountains, Indio and Brawley. GEOLOGY/HYDROLOGY: Complex mountains and alluvial deposits. AGRICULTURE: Irrigated truck farms, numerous field patterns. FORESTRY: Deciduous shrubform with some conifers on western slopes changing to scattered desert shrubforms on eastern slopes and in valley. METEOROLOGY: Cumulo-nimbus, cumulus congestus, alto-cumulus, cumulus humilis.
3736	9	33 26N	115 22W	60	Normal	45	1803	106	G-18	45	GEOGRAPHY/CARTOGRAPHY: California, Salton Sea and Imperial Valley, Arizona, Cibola, Chocolate Mountains, Brawley and El Centro. GEOLOGY/HYDROLOGY: Basin and Range Province with quaternary alluvium. AGRICULTURE: Irrigated truck farms, numerous field patterns large percentage in cultivation at present. FORESTRY: Scattered desert shrubform with some conifers at higher elevations. METEOROLOGY: Alto-cumulus, cumulus humilis, cumulus congestus.
3737	9	33 36N	106 31W	60	Normal	50	1804	105	G-19	10	GEOGRAPHY/CARTOGRAPHY: New Mexico, Tularosa Valley, Sacramento and San Andres Mountains, Alamogordo. GEOLOGY/HYDROLOGY: Basin and Range Province of complex mountains, lava flow and quaternary alluvium. AGRICULTURE: Extensive cultivation, highly congested in valley. FORESTRY: Scattered desert shrubform. METEOROLOGY: Alto-cumulus, cumulus humilis, cumulus congestus.

* NADIR POINT OF CAMERA

A-129

SO-65 MULTISPECTRAL PHOTOGRAPHS

AS 9-26

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude a. m.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3738	Mar 9	33 37N	105 40W	60	Normal	50	1805	105	0-19	10	GEOGRAPHY/CARTOGRAPHY: New Mexico, Carrizozo, Tularosa Valley, Sacramento Mountains, Rio Hondo, Capitan Peak. GEOLOGY/HYDROLOGY: Basin and Range Province of complex mountains, lava flow and alluvium. AGRICULTURE: Some cultivation along Rio Grande River. FORESTRY: Scattered desert shrubform with some conifers at higher elevations. METEOROLOGY: Alto-cumulus, cumulus humilis, snow cover in mountain areas, cirro-cumulus.
3739	9	33 39N	105 07W	60	Normal	50	1805	105	0-19	10	GEOGRAPHY/CARTOGRAPHY: New Mexico, Ruidoso, and Roswell Rio Hondo, El Capitan Peak. GEOLOGY/HYDROLOGY: Complex mountains and alluvium deposits. AGRICULTURE: Some dryland farming, field patterns visible in remote areas. FORESTRY: Desert shrubform with some conifers at higher elevations. METEOROLOGY: Alto-cumulus, cumulus humilis, cirro-cumulus, snow cover in mountain areas.
3740	9	32 44N	91 58W	60	Normal	55	1808	105	0-20	0	GEOGRAPHY/CARTOGRAPHY: Louisiana, Mississippi River Valley, Bayou D'Arbonne Lake, Monroe. GEOLOGY/HYDROLOGY: Floodplain deposit and interior plain region. AGRICULTURE: Temperate climate with extensive cultivation along Pecos River. FORESTRY: Scattered desert shrubform with some conifers scattered at higher elevations.
3741	9	32 41N	91 13W	60	Normal	55	1808	105	0-20	1	GEOGRAPHY/CARTOGRAPHY: Mississippi, Louisiana, Mississippi River Valley, Vicksburg. GEOLOGY/HYDROLOGY: Low plain with perennial meandering stream patterns. AGRICULTURE: Extensive cultivation. FORESTRY: Mixed pine/hardwood with pure stands of pine. METEOROLOGY: Cumulus humilis.

* NADIR POINT OF CAMERA

A-130

153

SO-65 MULTISPECTRAL PHOTOGRAPHS
AS 9-25

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3742	Mar 9	32 38N	90 34W	60	Normal	55	1808	105	G-20	3	GEOGRAPHY/CARTOGRAPHY: Mississippi, Vicksburg, Mississippi River Valley, Greenville Bend, Jackson, Ross Barnett Reservoir, Yazoo City. GEOGRAPHY/HYDROLOGY: Low plain with perennial meandering stream patterns. AGRICULTURE: Temperate climate with extensive cultivation. FORESTRY: Mixed pine/hardwood with some pure stands of each. METEOROLOGY: Cumulus humilis.
3743	9	32 34N	89 57W	60	Normal	55	1808	105	G-20	5	GEOGRAPHY/CARTOGRAPHY: Mississippi, Jackson, Yazoo Valley, Ross Barnett Reservoir. GEOGRAPHY/HYDROLOGY: Low plain, perennial meandering stream patterns. AGRICULTURE: Extensive field cultivation patterns. FORESTRY: Mixed pine/hardwood with some pure stands of each. METEOROLOGY: Cumulus humilis.
3744	9	33 16N	118 12W	50	Normal	45	1935	103	G-18	25	GEOGRAPHY/CARTOGRAPHY: California, Santa Catalina and San Clemente Islands, San Pedro Bay Area, Oceanside, Long Beach. GEOGRAPHY/HYDROLOGY: Complex mountain region and narrow coastal plain. AGRICULTURE: Semi-arid climate, some cultivation along coast. FORESTRY: Deciduous shrubform with some conifers at higher elevations. METEOROLOGY: Cumulus congestus, cumulo-nimbus, cumulus humilis, cirro-cumulus. OCEANOGRAPHY: Pacific Ocean, longshore currents indicated by outflowing sediments.

* NADIR POINT OF CAMERA

A-131

50-65 MULTISPECTRAL PHOTOGRAPHS

AS 9-26

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3745	Mar 9	33 15N	117 33W	50	Normal	45	1935	103	G-19	35	GEOGRAPHY/CARTOGRAPHY: California, Santa Ana Mountains Huntington Beach to San Diego, Oceanside, Gulf of Santa Catalina. GEOLOGY/HYDROLOGY: Complex mountains region of igneous and sedimentary formations. AGRICULTURE: Some field patterns along coast. FORESTRY: Deciduous shrubform with some conifers at higher elevations. METEOROLOGY: Cumulo-nimbus, cumulus congestus, cumulus humilis, cirro-cumulus. OCEANOGRAPHY: Pacific Ocean, longshore currents indicated by outflowing sediments.
3746	9	33 12N	116 56W	50	Normal	45	1935	103	G-18	40	GEOGRAPHY/CARTOGRAPHY: California, Santa Ana, Laguna, Fish Creek, Santa Rosa Mountains, Lake Hemshaw, San Diego. GEOLOGY/HYDROLOGY: Complex mountains of igneous and sedimentary formations. AGRICULTURE: Scattered cultivation. FORESTRY: Deciduous shrubform with some conifers at higher elevation. METEOROLOGY: Cumulo-nimbus, cumulus congestus, cumulus humilis, cirro-cumulus. OCEANOGRAPHY: Pacific Ocean, some sediment discharge from population centers evident in nearshore areas.
3747	9	33 09N	116 14W	50	Normal	45	1936	103	G-18	35	GEOGRAPHY/CARTOGRAPHY: California, Salton Sea, Santa Rosa and Fish Creek Mountains, Superstition Hills. GEOLOGY/HYDROLOGY: Quaternary alluvium valley and complex mountains. AGRICULTURE: Desert area with irrigated crops, area under cultivation contrasts sharply with surrounding terrain. FORESTRY: Deciduous shrubform with some conifers, at higher elevations changing to desert shrubform on western slopes. METEOROLOGY: Cumulus congestus, cumulo-nimbus, cumulus humilis, cirro-cumulus.

* NADIR POINT OF CAMERA

A-132

SO-65 MULTISPECTRAL PHOTOGRAPHS
AS 9-26

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3748	Mar 9	33 03N	115 45W	50	Normal	45	1936	103	G-18	30	<u>GEOGRAPHY/CARTOGRAPHY</u> : California, Salton Sea, Imperial Valley, Mexico, Mexicali, El Centro and Brawley, Superstition Hills. <u>GEOLOGY/HYDROLOGY</u> : Quaternary alluvium valley and complex mountains. <u>AGRICULTURE</u> : Extensive and highly concentrated irrigated cultivation. <u>FORESTRY</u> : Primarily desert shrubform. <u>METEOROLOGY</u> : Cumulus congestus, cumulus humilis.
3749	9	32 05N	111 22W	70	Normal	55	1937	103	G-19 H-22	35	<u>GEOGRAPHY/CARTOGRAPHY</u> : Arizona, Tucson, Santa Rita Mountains, Tanque Verde Mountains. <u>GEOLOGY/HYDROLOGY</u> : Volcanic mountain ranges surrounded by alluvium deposits, dendritic drainage patterns. <u>AGRICULTURE</u> : Remote areas of extensive cultivation visible. <u>FORESTRY</u> : Scattered desert shrubform and coniferous woodland at higher elevations. <u>METEOROLOGY</u> : Cumulus congestus, cumulus humilis.
3750	9	32 05N	110 49W	70	Normal	55	1937	103	G-19 H-22	30	<u>GEOGRAPHY/CARTOGRAPHY</u> : Arizona, Tucson, San Pedro River, Whetstone Mountains, Tanque Verde Mountains. <u>GEOLOGY/HYDROLOGY</u> : Volcanic mountain ranges surrounded by alluvium deposits, dendritic drainage patterns. <u>AGRICULTURE</u> : Field patterns visible along San Pedro River. <u>FORESTRY</u> : Scattered desert shrubform and coniferous woodlands at higher elevations. <u>METEOROLOGY</u> : Cumulus congestus, cumulus humilis.
3751	9	32 05N	110 20W	70	Normal	55	1937	103	G-19 H-22	25	<u>GEOGRAPHY/CARTOGRAPHY</u> : Arizona, Benson, and Willcox Lake, San Pedro, Whetstone and Dragon Mountains, Ricon Mountains. <u>GEOLOGY/HYDROLOGY</u> : Volcanic mountain ranges surrounded by alluvium deposits, dendritic drainage patterns. <u>AGRICULTURE</u> : Areas of cultivation in the stream valleys. <u>FORESTRY</u> : Scattered desert shrubform and coniferous woodlands at higher elevations. <u>METEOROLOGY</u> : Cumulus congestus, cumulus humilis.

SC-65 MULTISPECTRAL PHOTOGRAPHS
AS 9-25

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3752	Mar 9	32 05N	109 52W	70	Normal	55	1937	103	H-22 G-19	20	GEOGRAPHY/CARTOGRAPHY: Arizona, Wilcox Lake; San Pedro River; Wickenburg, Dragon, Chiricahua, and Pedregosa Mountains; Sulfer Hills GEOLOGY/HYDROLOGY: Volcanic mountains, alluvium deposits and a large playa, dendritic drainage patterns. AGRICULTURE: Areas of extensive cultivation. FORESTRY: Scattered desert shrubform and coniferous woodlands at higher elevations. METEOROLOGY: Cumulus humilis; Cumulus congestus; snow at high elevations of Pedregosa Mountains.
3753	9	32 02N	109 21W	70	Normal	55	1937	103	H-22 H-23 G-19	15	GEOGRAPHY/CARTOGRAPHY: Arizona, Wilcox Lake; Pedregosa Mountains; Chiricahua Mountains; San Simon Valley. GEOLOGY/HYDROLOGY: Complex mountain structure and alluvial deposits. AGRICULTURE: Dry farming, intensive field patterns. FORESTRY: Mixed forest types at higher elevations. METEOROLOGY: Cumulus humilis; snow cover in high elevations of Pedregosa Mountains.
3754	9	31 56N	108 57W	70	Normal	55	1937	103	H-22 H-23 G-19	10	GEOGRAPHY/CARTOGRAPHY: Arizona, New Mexico, Pedregosa Mountains; San Simon Valley; Peloncillo and Arizona Mountains GEOLOGY/HYDROLOGY: Basin and Range Province of Alluvium and complex mountains. AGRICULTURE: Some dryland field pattern visible. FORESTRY: Scattered desert shrubform with some coniferous woodlands at higher elevations. METEOROLOGY: Cumulus humilis; snow cover in high elevations of Pedregosa Mountains.
3755	9	31 54N	108 40W	70	Normal	55	1937	103	H-22 H-23 G-19	5	GEOGRAPHY/CARTOGRAPHY: New Mexico, Arizona; Peloncillo. GEOLOGY/HYDROLOGY: Basin and Range Province of volcanic ranges and alluvial plains. AGRICULTURE: Some field patterns visible in valleys. FORESTRY: Scattered desert shrubform with some coniferous woodlands at higher elevations. METEOROLOGY: Cumulus humilis.

* NADIR POINT OF CAMERA

A-134

SO-65 MULTISPECTRAL PHOTOGRAPHS

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3756	9 Mar	31 54N	108 20W	70	Normal	55	1937	103	H-23 G-19	4	<u>GEOGRAPHY/CARTOGRAPHY</u> : New Mexico, Animas, Hatchet, Cedar and Pymarrid Mountains; Town of Lordsburg. <u>GEOLOGY/HYDROLOGY</u> : Basin and Range Province. <u>AGRICULTURE</u> : Areas of extensive cultivation at lower elevations. <u>FORESTRY</u> : Scattered desert shrubform with some coniferous woodlands at higher elevations. <u>METEOROLOGY</u> : Cumulus humilis.
3757	9	31 53N	108 00W	70	Normal	55	1938	103	H-23 G-19	2	<u>GEOGRAPHY/CARTOGRAPHY</u> : New Mexico, Deming, Wilna, and Caga Cedar Mountains. <u>GEOLOGY/HYDROLOGY</u> : Basin and Range Province. <u>AGRICULTURE</u> : Areas of extensive cultivation at lower elevations. <u>FORESTRY</u> : Desert shrubforms. <u>METEOROLOGY</u> : Cumulus humilis.
3758	9	28 44N	95 58W	70	Normal	55	1940	102	H-24	25	<u>GEOGRAPHY/CARTOGRAPHY</u> : Texas, Matagorda Bay, Freeport, West Bay <u>GEOLOGY/HYDROLOGY</u> : Low coastal plain, mature stream drainage. <u>AGRICULTURE</u> : Extensive cultivated areas. <u>FORESTRY</u> : Deciduous shrubform mixed with some non commercial conifers, coastal range lands. <u>METEOROLOGY</u> : Cirrus spissatus; Cirrus fibratus. <u>OCEANOGRAPHY</u> : Slight southerly longshore current indicated by sediment flow pattern.
3759	9	28 39N	95 38W	70	Normal	55	1940	102	H-24	25	<u>GEOGRAPHY/CARTOGRAPHY</u> : Texas, Matagorda Bay, Freeport, West Bay. <u>GEOLOGY/HYDROLOGY</u> : Low coastal plain, with mature drainage characteristics. <u>AGRICULTURE</u> : Extensive cultivated areas. <u>FORESTRY</u> : Deciduous shrubform with some non commercial conifers, coastal range lands. <u>METEOROLOGY</u> : Cirrus spissatus; Cirrus fibratus. <u>OCEANOGRAPHY</u> : Slight southerly longshore current indicated by sediment flow pattern.
3760	9	28 34N	95 18W	70	Normal	55	1940	102	H-24	25	<u>GEOGRAPHY/CARTOGRAPHY</u> : Texas, Matagorda Bay, West Bay, Freeport <u>GEOLOGY/HYDROLOGY</u> : Low coastal plain <u>AGRICULTURE</u> : Rangeland <u>FORESTRY</u> : Deciduous shrubform <u>METEOROLOGY</u> : Cirrus spissatus, Cirrus fibratus <u>OCEANOGRAPHY</u> : Nearshore area indicates outflowing sediments.

* NADIR POINT OF CAMERA

A-125

SO-65 MULTISPECTRAL PHOTOGRAPHS

AS 9-26

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude in mi.	ONC Wavelength	%	Description
		Latitude deg min	Longitude deg min								
3761	10 10	01 00N	48 00W	10	Normal	31	1929	112	L-28 M-27	95	GEOGRAPHY/CARTOGRAPHY: South America, Amazon River mouth area. METEOROLOGY: Alto-cumulus; Cumulus congestus, Cumulus humilis.
3762	10 10	00 20N	47 00W	10	Normal	31	1929	112	L-28 M-27	35	GEOGRAPHY/CARTOGRAPHY: South America; Atlantic Ocean METEOROLOGY: Alto-cumulus; Cumulus humilis; Cumulus congestus.
3763	10 10	00 20N	46 00W	10	Normal	31	1930	112	L-28 M-27	10	GEOGRAPHY/CARTOGRAPHY: South America, Atlantic Ocean. METEOROLOGY: Cumulus humilis.
3764	10 10	20 46N	100 15W	60	Normal	55	2052	104	J-24	70	GEOGRAPHY/CARTOGRAPHY: Mexico, northwest of Mexico City. GEOLOGY/HYDROLOGY: Complex volcanic mountains. AGRICULTURE: Some cultivation visible through clouds. FORESTRY: Mixed broadleaf deciduous and evergreen at higher elevations with desert shrubform at lower elevations. METEOROLOGY: Cumulus humilis, Cumulus congestus; Cirrocumulus.
3765	10 10	20 33N	99 38W	60	Normal	55	2052	104	J-24	60	GEOGRAPHY/CARTOGRAPHY: Mexico, northwest of Mexico City. GEOLOGY/HYDROLOGY: Complex volcanic mountains. AGRICULTURE: Scattered cultivation. FORESTRY: Mixed broadleaf deciduous and evergreen at higher elevations; desert shrubform at lower elevations. METEOROLOGY: Cirrocumulus; Cumulus congestus; Cumulus humilis.
3766	10 10	18N	99 00W	60	Normal	55	2052	104	J-24	50	GEOGRAPHY/CARTOGRAPHY: Mexico, north of Mexico City. GEOLOGY/HYDROLOGY: Volcanic mountain region. AGRICULTURE: Scattered areas of cultivation, primarily along drainage. FORESTRY: Mixed broadleaf deciduous and evergreen at higher elevations, desert shrubform at lower elevations. METEOROLOGY: Alto-cumulus; Cumulus congestus; Cumulonimbus; Cumulus humilis.
3767	10 10	20 02N	98 24W	60	Normal	55	2052	104	J-24	45	GEOGRAPHY/CARTOGRAPHY: Mexico, northeast of Mexico City, Cerra La Malinche. GEOLOGY/HYDROLOGY: Volcanic mountain region and complex plateau area. AGRICULTURE: Scattered cultivation, primarily along drainage. FORESTRY: Mixed broadleaf deciduous and evergreen at higher elevations, desert shrubform at lower elevations. METEOROLOGY: Alto-cumulus; Cumulus congestus, Cumulus humilis.

* NADIR POINT OF CAMERA

A-136

SO-65 MULTISPECTRAL PHOTOGRAPHS

AS 9-26

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	SMT	Altitude n. mi.	CNC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3768	Mar 10	19 40N	97 49W	60	Normal	55	2052	104	J-24	40	GEOGRAPHY/CARTOGRAPHY: Mexico, Puebla, Cerro La Malinche Volcano. GEOLOGY/HYDROLOGY: Volcanic mountains and alluvial deposits. AGRICULTURE: Isolated cultivation along drainage. FORESTRY: Mixed species at higher elevations, desert shrub form at lower elevations. METEOROLOGY: Alto-cumulus; Cumulus congestus, Cumulus humilis.
3769	10	19 11N	97 08W	60	Normal	55	2052	104	J-24	75	GEOGRAPHY/CARTOGRAPHY: Volcan Citaltepeti, Mexico. GEOLOGY/HYDROLOGY: Volcanic mountains and alluvial deposits. AGRICULTURE: Scattered field patterns. FORESTRY: Mixed species at higher elevations, desert shrub form at lower elevations. METEOROLOGY: Alto-cumulus; Cumulus congestus, Cumulus humilis.
3770	10	10 31N	82 52W	41	Normal	41	2057	124	K-25	35	GEOGRAPHY/CARTOGRAPHY: Costa Rica, Limon and Caribbean Sea. GEOLOGY/HYDROLOGY: Shoreline of emergence and coastal plain. METEOROLOGY: Cirrus fibratus; Alto-cumulus.
3771	10	10 15N	82 52W	41	Normal	41	2057	124	K-25	20	GEOGRAPHY/CARTOGRAPHY: Costa Rica, Limon, and Caribbean Sea. METEOROLOGY: Cirrus fibratus; alto-cumulus.
3772	10	09 57N	82 08W	41	Normal	41	2057	124	K-25	20	GEOGRAPHY/CARTOGRAPHY: Caribbean Sea off the coast of Costa Rica. METEOROLOGY: Alto-cumulus.
3773	11	30 05N	98 00W	60	Dark	22	1442	126	H-23	100	GEOGRAPHY/CARTOGRAPHY: Texas METEOROLOGY: Alto-cumulus.
3774	11	30 15N	97 10W	60	Dark	22	1442	126	H-23	90	GEOGRAPHY/CARTOGRAPHY: Texas METEOROLOGY: Alto-cumulus.
3775	11	30 30N	96 30W	50	Dark	22	1443	126	H-23	80	GEOGRAPHY/CARTOGRAPHY: Texas, College Station. GEOLOGY/HYDROLOGY: Interior plains region. AGRICULTURE: Extensive field patterns visible. FORESTRY: Intermediate hardwood forests, some conifers mixed. METEOROLOGY: Alto-cumulus.

A-137

REPRODUCED FROM ORIGIN

SO-65 MULTISPECTRAL PHOTOGRAPHS
AS 9-26

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3776	Mar 11	33 28N	78 23W	40	Normal	36	1447	113	0-21	10	GEOGRAPHY/CARTOGRAPHY: North Carolina, Cape Fear, Town of Southport. GEOLOGY/HYDROLOGY: Low coastal sediment plain. AGRICULTURE: Grassland, scattered field patterns. FORESTRY: Mixed pine, hardwood. Some pure stands of each. METEOROLOGY: Alto-cumulus. OCEANOGRAPHY: Sediment filled stream outflow indicate a northeasterly trend of currents.
3777	11	33 25N	77 58W	40	Normal	36	1447	113	0-21	40	GEOGRAPHY/CARTOGRAPHY: North Carolina, Cape Fear, Town of Southport. GEOLOGY/HYDROLOGY: Low coastal plain. METEOROLOGY: Alto-cumulus. OCEANOGRAPHY: Sediment plume visible from Carolina coast.
3778	11	33 23N	77 22W	40	Normal	36	1447	113	0-21	65	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean near Cape Fear, North Carolina. METEOROLOGY: Alto-cumulus. OCEANOGRAPHY: Sediment plume visible from Carolina coast.
3779	11	31 19N	116 34W	50	Dark	31	1614	126	H-22	30	GEOGRAPHY/CARTOGRAPHY: Mexico, Baja, California, Ensenada; Cape Colnett, Points Santo Tomas, San Jose, and Banda, Pacific Ocean. GEOLOGY/HYDROLOGY: Complex mountain region. AGRICULTURE: Some field patterns visible along the coast. FORESTRY: Desert shrubform with conifers at higher elevations. METEOROLOGY: Alto-cumulus; Cumulus humilis.
3780	11	31 28N	115 42W	50	Dark	31	1614	126	H-22	10	GEOGRAPHY/CARTOGRAPHY: Baja, California, Cape Colnett, Point San Jose, Sierra De Juarez; Sierra Pinta. GEOLOGY/HYDROLOGY: Complex mountains and alluvial deposits. AGRICULTURE: Scattered field patterns along coast, possible area of cultivation in highlands. Intense cultivation along Colorado River. FORESTRY: Desert shrubform with coniferous stands in higher elevations. METEOROLOGY: Cumulus; Snow cover in high mountain areas.

A-138

* NADIR POINT OF CAMERA

SO-65 MULTISPECTRAL PHOTOGRAPHS
AS 9-26

Frame No.	Date	Principal Point		Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC		% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.					No.	No.		
3781	Mar 11	31 34N	115 04W	Normal	31	1614	126	H-22	05		<u>GEOGRAPHY/CARTOGRAPHY</u> : Baja, California; Colorado River Delta, Gulf of California, Sierra Pinta. <u>GEOLOGY/HYDROLOGY</u> : Complex mountains, alluvial fans, desert erg region and fluvial valley deposit. <u>AGRICULTURE</u> : Extremely heavy cultivation along Colorado River. <u>FORESTRY</u> : Desert shrubform with some conifers at higher elevations. <u>METEOROLOGY</u> : Cumulus; snow cover in high mountain areas. <u>OCEANOGRAPHY</u> : Sediment pattern in the Colorado River delta.
3782	11	31 42N	114 13W	Normal	31	1615	126	G-18 G-19 H-22	0		<u>GEOGRAPHY/CARTOGRAPHY</u> : Colorado River Delta; Gulf of California Grand Desert; Adair Bay. <u>GEOLOGY/HYDROLOGY</u> : Erg plains and Pinacates volcanic flow <u>AGRICULTURE</u> : Heavy cultivation along Colorado River <u>FORESTRY</u> : Desert shrubform <u>OCEANOGRAPHY</u> : Sediment pattern in the Colorado River delta.
3783	11	31 48N	113 30W	Normal	31	1615	126	G-18 G-19	0		<u>GEOGRAPHY/CARTOGRAPHY</u> : Mexico; Sonora Province; Grand Desert, Adair Bay; Cerro Del Pinacata. <u>GEOLOGY/HYDROLOGY</u> : Sonora desert erg region, complex mountains and Lava Field. <u>AGRICULTURE</u> : Isolated field patterns along major river. <u>FORESTRY</u> : Scattered desert shrubform. <u>OCEANOGRAPHY</u> : Sediment and/or bottom topography in Adair Bay.
3784	11	31 57N	112 39W	Normal	31	1615	126	G-19 H-22	0		<u>GEOGRAPHY/CARTOGRAPHY</u> : Mexico, United States; Sonora Province, Arizona, Cerro Del Pinacata; Oneil Hills; Towns of Lukeville and Sonoyata. <u>GEOLOGY/HYDROLOGY</u> : Pinacate lava field, alluvial deposits, and complex volcanic mountain ranges. <u>AGRICULTURE</u> : Isolated field pattern along major drain. <u>FORESTRY</u> : Scattered desert shrubform.
3785	11	32 06N	111 59W	Normal	31	1615	126	G-19 H-22	03		<u>GEOGRAPHY/CARTOGRAPHY</u> : United States, Mexico; Arizona; Mesquite Mountains; Towns of Lukeville and Pisinimo. <u>GEOLOGY/HYDROLOGY</u> : Complex mountains of the basin and range province. <u>AGRICULTURE</u> : Heavy cultivation, extensive field pattern. <u>FORESTRY</u> : Desert shrubform. <u>METEOROLOGY</u> : Cumulus humilis.

* NADIR POINT OF CAMERA

A-139

SO-65 MULTISPECTRAL PHOTOGRAPHS
AS 9-26

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3786	Mar 11	32 14N	111 18W	50	Normal	31	1615	126	G-19 H-22	15	<u>GEOGRAPHY/CARTOGRAPHY:</u> United States, Arizona; Area south of Tucson; Sierrita Mountains; Altar Valley; Las Guifas Mountains. Santa Rita Mountains. <u>GEOLOGY/HYDROLOGY:</u> Basin and Range Province. <u>AGRICULTURE:</u> Heavy cultivation along river. <u>FORESTRY:</u> Desert shrubform with some conifers at higher elevations. <u>METEOROLOGY:</u> Cumulus humilis; snow cover in higher elevations of Santa Rita Mountains.
3787	11	33 20N	100 41W	50	Normal	38	1618	115	G-19	35	<u>GEOGRAPHY/CARTOGRAPHY:</u> United States, Texas; Caprock Escarpment; White River Lake; Town of Matador. <u>GEOLOGY/HYDROLOGY:</u> Limestone Plateau and rolling plains. <u>AGRICULTURE:</u> Extensive cultivation, heavy concentration of field patterns. <u>FORESTRY:</u> Scattered shrubform with range grass. <u>METEOROLOGY:</u> Alto-cumulus.
3788	11	33 22N	100 02W	50	Normal	38	1618	115	G-19 G-20	45	<u>GEOGRAPHY/CARTOGRAPHY:</u> United States, Texas; Paducah. <u>GEOLOGY/HYDROLOGY:</u> Elevated plains and low mountain region. <u>AGRICULTURE:</u> Heavy concentration of field patterns. <u>FORESTRY:</u> Scattered shrubform with range grass. <u>METEOROLOGY:</u> Alto-cumulus.
3789	11	33 26N	99 33W	50	Normal	38	1618	115	G-19 G-20	45	<u>GEOGRAPHY/CARTOGRAPHY:</u> United States, Texas; Red River; Santa Rosa Lake; Lakes Kemp, Diverson, and Kickapoo; Town of Seymour. <u>GEOLOGY/HYDROLOGY:</u> Elevated plains and low rolling mountains. <u>AGRICULTURE:</u> Heavy concentration of field patterns, majority under cultivation. <u>FORESTRY:</u> Shrubform changing to intermediate hardwood forests along drainage. <u>METEOROLOGY:</u> Alto-cumulus.

* NADIR POINT OF CAMERA

A-140

SO-65 MULTISPECTRAL PHOTOGRAPHS
AS 9-26

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3790	Mar 11	33 27N	86 00W	60	Normal	47	1621	106	G-20 G-21	0	GEOGRAPHY/CARTOGRAPHY: United States, Alabama; Cumberland Plateau; Martin Lake; Coosa River; Birmingham, Anniston, and Gadsden. GEOLOGY/HYDROLOGY: Folded mountains of the Appalachian plateau region. AGRICULTURE: Heavy cultivation along Coosa River, field patterns of irregular shape. FORESTRY: Mixed stands of pine/hardwood, some pure stands of each.
3791	11	33 23N	85 16W	60	Normal	47	1621	106	G-21	0	GEOGRAPHY/CARTOGRAPHY: United States; Alabama, Georgia; Martin Lake; Cumberland Plateau; Anniston, Gadsden and Columbus. GEOLOGY/HYDROLOGY: Folded mountains and plateau region. AGRICULTURE: Heavy cultivation, irregular shaped field patterns. FORESTRY: Mixed stands of pine/hardwood, some pure stands of each.
3792	11	33 10N	84 40W	60	Normal	47	1621	106	G-21	0	GEOGRAPHY/CARTOGRAPHY: United States; Georgia; Atlanta and Columbus, Chattahoochee River. GEOLOGY/HYDROLOGY: Piedmont area of Appalachians. AGRICULTURE: Heavy cultivation, scattered irregular shaped field patterns. FORESTRY: Mixed pine/hardwood stands with pure stands of both.
3793	12	33 35N	79 03W	5	Normal	39	1500	116	G-21	0	GEOGRAPHY/CARTOGRAPHY: United States, South and North Carolina, Cape Roman, Pee Dee River; Myrtle Beach and Georgetown. GEOLOGY/HYDROLOGY: Coastal plain region and dissected consequent drainage. AGRICULTURE: Scattered, irregular shaped field patterns. FORESTRY: Mixed pine/hardwood stands, coastal grasses. OCEANOGRAPHY: Coastal sediment patterns.
3794	12	33 35N	77 39W	5	Normal	39	1500	116	G-21	3	GEOGRAPHY/CARTOGRAPHY: United States; North Carolina, Cape Fear. GEOLOGY/HYDROLOGY: Coastal plain region with an emergent coastline. AGRICULTURE: Scattered field patterns. FORESTRY: Mixed pine/hardwood forests. METEOROLOGY: Alto-cumulus. OCEANOGRAPHY: Coastal sediment pattern, possible bottom topography.

A-143

W. H. H. PHOTOGRAPHY

AS 9-26

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3795	12 Mar	33 30N	76 30W	5	Normal	39	1500	116	G-21	70	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean near Cape Fear North Carolina. GEOLOGY/HYDROLOGY: Coastal plain region. METEOROLOGY: Alto-cumulus. OCEANOGRAPHY: Coastal sediment pattern.
3796	12	32 55N	120 00W	7.5	Normal	25	1627	133	G-18	80	GEOGRAPHY/CARTOGRAPHY: United States; California, San Nicholas Island. FORESTRY: Deciduous shrubform. METEOROLOGY: Alto-cumulus, Nimbostratus.
3797	12	32 57N	118 40W	7.5	Normal	27	1627	132	G-18	60	GEOGRAPHY/CARTOGRAPHY: United States; California; San Clemente and Santa Catalina Islands; Gulf of Santa Catalina; Town of Avalon. GEOLOGY/HYDROLOGY: Complex mountain on coast line. AGRICULTURE: Field patterns faintly visible. FORESTRY: Deciduous shrubform. METEOROLOGY: Alto-cumulus; Nimbostratus. OCEANOGRAPHY: Coastal sediment pattern.
3798	12	33 01N	116 55W	7.5	Normal	29	1627	131	G-18	10	GEOGRAPHY/CARTOGRAPHY: United States; California; San Diego, Geanside; Tijuana, Laguna Mountains, Fish Creek Mountains. GEOLOGY/HYDROLOGY: Complex Pacific mountain range. AGRICULTURE: Scattered areas of intense cultivation. FORESTRY: Deciduous shrubform with some coniferous forests at higher elevations changing to scattered desert. METEOROLOGY: Alto-cumulus; Stratus and smoke at San Diego; Snow in Laguna Mountains. OCEANOGRAPHY: Sediment pattern and/or bottom topography along coast.
3799	12	33 05N	115 18W	7.5	Normal	30	1628	129	G-18	0	GEOGRAPHY/CARTOGRAPHY: United States, California, Arizona; Salton Sea; Imperial Valley; Superstition Hills; Chocolate Mountains, Colorado River; Mexicali, El Centro, Brawley, and Yuma. GEOLOGY/HYDROLOGY: Complex igneous mountains, floodplain and alluvial deposits. AGRICULTURE: Very intense cultivation, irrigated. FORESTRY: Desert shrubform.

* NADIR POINT OF CAMERA

A-142

SO-65 MULTISPECTRAL PHOTOGRAPHS

AS 9-26

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3800	Mar 12	33 19N	113 49W	7.5	Normal	30	1628	128	G-18	0	GEOGRAPHY/CARTOGRAPHY: United States, Arizona, Colorado River, Trigo Dome Rock, Kofa, and Castle Dome Mountains; Yuma and Blythe, Imperial Reservoir. GEOLOGY/HYDROLOGY: Tertiary volcanic mountains and quaternary alluvium. AGRICULTURE: Scattered areas of intense irrigated cultivation. FORESTRY: Scattered desert shrubform, some coniferous forests at higher elevations.
3801	12	33 25N	112 18W	7.5	Normal	32	1628	127	G-18	0	GEOGRAPHY/CARTOGRAPHY: United States; Arizona; Phoenix metropolitan area; McDowell Mountains, Gila River; Sierra Estrella. GEOLOGY/HYDROLOGY: Basin and Range Province, complex mountains and quaternary alluvium. AGRICULTURE: Very intense cultivation along Gila River. FORESTRY: Desert shrubform with scattered conifers at higher elevations. METEOROLOGY: Snow in high mountains areas.
3802	12	33 32N	110 44W	7.5	Normal	33	1629	125	G-19	0	GEOGRAPHY/CARTOGRAPHY: United States; Arizona; Theodore Roosevelt Lake; Mazatzal Mountains, Apache Mountains, Superstition Mountains, San Carlos Lake. GEOLOGY/HYDROLOGY: Complex Snow covered Rockies and alluvial deposits. AGRICULTURE: Heavy cultivation along Gila River. FORESTRY: Desert shrubform with some conifers at higher elevations. METEOROLOGY: Snow in mountain and high plateau areas.
3803	12	33 37N	109 13W	7.5	Normal	34	1629	124	G-19	0	GEOGRAPHY/CARTOGRAPHY: United States; Arizona, New Mexico Matanes Plateau; White Mountains; Tularosa and Gallo Mountains, Towns of Alpine and Luna. GEOLOGY/HYDROLOGY: Complex mountain region. AGRICULTURE: Some cultivation along Salt River. FORESTRY: Shrubform changing to mixed coniferous forests in higher elevations. METEOROLOGY: Snow in mountain and high plateau areas.

A-143

WINDING POINT OF CAMERA

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	WAC No.	ONC	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.									
3804	Mar 12	33 44N	107 37W	7.5	Normal	35	1629	123	G-19	0		GEOGRAPHY/CARTOGRAPHY: United States; New Mexico; Plains of San Austin; San Mateo and Gallinas Mountains; Rio Grande Valley; Elephant Butte and Caballo Reservoirs. GEOLOGY/HYDROLOGY: Complex mountains, and alluvial lowland region. AGRICULTURE: Scattered field patterns along Rio Grande River. FORESTRY: Scattered desert shrubform with mixed conifers at higher elevations. METEOROLOGY: Snow in mountain and high plateau areas.
3805	12	33 42N	106 10W	7.5	Normal	35	1630	121	G-19	0		GEOGRAPHY/CARTOGRAPHY: United States; New Mexico; San Andres, Sacramento and Capitan Mountains; Tularosa Valley; Towns of Alamogordo, Tularosa, and Mesquero. GEOLOGY/HYDROLOGY: Basin and Range Province of complex mountains; alluvial and lava flow deposits. AGRICULTURE: Field patterns along Rio Grande River, snow covered field patterns also visible, some cultivation in Sacramento water shed. FORESTRY: Scattered desert shrubform with mixed conifers in Sacramento Mountains. METEOROLOGY: Cumulus; snow in mountain areas.
3806	12	33 42N	104 48W	7.5	Normal	37	1630	120	G-19	0		GEOGRAPHY/CARTOGRAPHY: United States, New Mexico; Pecos River; Roswell; Capitan Mountains. GEOLOGY/HYDROLOGY: Complex mountain sloping toward the elevated plateau region of alluvial deposits. AGRICULTURE: Heavy cultivation along Pecos River near Roswell large field patterns east of Pecos River, not in cultivation. FORESTRY: Scattered shrubform with range grasslands east of Pecos River. METEOROLOGY: Snow in Capital Mountains.
3807	12	33 42N	103 01W	7.5	Normal	38	1630	119	G-19	0		GEOGRAPHY/CARTOGRAPHY: United States, New Mexico, Texas; Mesquero Sands; Estacado Plains, Clovis and Portales. GEOLOGY/HYDROLOGY: Elevated plateau or Estacado plains of sandstone and limestone formations. AGRICULTURE: Large area of definable field patterns, primarily range lands. FORESTRY: Scattered shrubform with range grasses.

* NADIR POINT OF CAMERA

A-144

SO-65 MULTISPECTRAL PHOTOGRAPHS

AS 9-26

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3808	Mar 12	33 41N	101 29W	7.5	Normal	38	1631	117	G-19	0	GEOGRAPHY/CARTOGRAPHY: United States; Texas, Lubbock, Plainview, Caprock Escarpment; White River Lake. GEOLOGY/HYDROLOGY: Central Plains of a limestone platform and sedimentary lowlands. AGRICULTURE: Heavy concentration of field patterns, small amount in production at present. FORESTRY: Scattered shrubform with range grasses.
3809	12 33	40N 99 58W		7.5	Normal	39	1631	116	G-19 G-20	25	GEOGRAPHY/CARTOGRAPHY: United States; Texas; Lakes Stamford and Kemp. GEOLOGY/HYDROLOGY: Central Plains of sedimentary beds and rolling terrain. AGRICULTURE: Heavy concentration of field patterns, small portion presently under cultivation. FORESTRY: Shrubform changing to intermediate forests of mixed pine/hardwood. METEOROLOGY: Alto-cumulus.
3810	12 33	34N 98 37W		5	Normal	40	1631	115	G-20	40	GEOGRAPHY/CARTOGRAPHY: United States; Texas; Lakes Arrowhead, Nocona, and Graham, Possum Kingdom Reservoir; Wichita Falls. GEOLOGY/HYDROLOGY: Central rolling plains. AGRICULTURE: Heavy concentration of field patterns, small portion presently under cultivation. FORESTRY: Shrubform changing to intermediate stands of mixed pine/hardwood. METEOROLOGY: Alto-cumulus.
3811	12 33	27N 96 54W		3	Normal	41	1632	114	G-20	25	GEOGRAPHY/CARTOGRAPHY: United States; Texas, Oklahoma; Lakes Texoma and Eagle Mountain; Grapevine, Little Elm and Lavon Reservoirs, Dallas, Fort Worth, Denton, Sherman and Denison. GEOLOGY/HYDROLOGY: Central rolling plains. AGRICULTURE: Scattered areas of heavy cultivation. FORESTRY: Mixed hardwood forests along drainage, range grasses METEOROLOGY: Alto-cumulus.
3812	12 33	14N 94 23W		2	Normal	43	1632	113	G-20	0	GEOGRAPHY/CARTOGRAPHY: United States; Texas, Arkansas; Texarkana, plain deposit all meandering river. GEOLOGY/HYDROLOGY: Central Plains, rolling terrain and flood plain deposit all meandering river. AGRICULTURE: Scattered upland field patterns, extensive river bottom cultivation. FORESTRY: Mixed pine/hardwood forests with some pure stands of both. METEOROLOGY: Cumulus.

* NADIR POINT OF CAMERA

A-145

AS 9-26

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3813	Mar 12	32 12N	85 42W	0	Normal	48	1634	102	G-20 G-21 H-24 H-25	45	GEOGRAPHY/CARTOGRAPHY: United States, Alabama, Georgia; Martin and Walter F. George Lakes. GEOLOGY/HYDROLOGY: Coastal Plain region. AGRICULTURE: Scattered, irregular shaped upland field patterns. FORESTRY: Mixed pine/hardwood forests with pure stands of both. METEOROLOGY: Cirrocumulus; Alto-cumulus.
3814	12	31 58N	84 13W	0	Normal	49	1635	102	G-21 H-25	45	GEOGRAPHY/CARTOGRAPHY: United States; Georgia; Albany; Flint River. GEOLOGY/HYDROLOGY: Coastal Plain region. AGRICULTURE: Scattered, irregular shaped upland field patterns. FORESTRY: Mixed pine/hardwood forests with pure stands of both. METEOROLOGY: Cirrocumulus; Alto-cumulus.
3815	12	31 38N	82 41W	0	Normal	50	1635	102	G-21 H-25	30	GEOGRAPHY/CARTOGRAPHY: United States, Georgia; Atamaha River, Okefenokee Swamp, Waycross. GEOLOGY/HYDROLOGY: Coastal Plain region. AGRICULTURE: Scattered upland field patterns. FORESTRY: Mixed pine/hardwood forests with pure stands of both. METEOROLOGY: Cirrocumulus; Alto-cumulus.
3816	12	31 16N	81 17W	0	Normal	51	1635	102	H-25	20	GEOGRAPHY/CARTOGRAPHY: United States; Georgia, Brunswick; Cumberland and Sapelo Islands. GEOLOGY/HYDROLOGY: Coastal Plain region with a compound shoreline. AGRICULTURE: Scattered areas of intense cultivation. FORESTRY: Mixed pine/hardwood with pure stands of both. METEOROLOGY: Cirrocumulus; Cirrus spissatus. OCEANOGRAPHY: Coastal sediment patterns outflowing from streams.
3817	12	30 50N	79 40W	0	Normal	52	1636	102	H-25	10	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean off Georgia coast. METEOROLOGY: Cirrus spissatus; Alto-cumulus. OCEANOGRAPHY: Edge of sunglint.
3818	12	30 20N	77 50W	0	Normal	53	1636	102	H-25	45	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean off Georgia coast. METEOROLOGY: Cirrus Fibratus; Alto-cumulus. OCEANOGRAPHY: Sunglint.

* NADIR POINT OF CAMERA

A-146

SD-65 MULTISPECTRAL PHOTOGRAPHS

AS 9-26

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3819	Mar 12	29 50N	76 10W	0	Normal	53	1636	102	H-25	60	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean off Georgia coast. METEORLOGY: Cirrocumulus; Alto-cumulus OCEANOGRAPHY: Edge of sunglint
3820	12	*24 45N	60 45W	0	Normal	62	1640	97	-	40	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean - BOMEX area METEORLOGY: Alto-cumulus; Cumulus humilis. OCEANOGRAPHY: Edge of sunglint
3821	12	*24 05N	59 20W	0	Normal	62	1641	97	-	25	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Cumulus humilis; Cumulus congestus; Cirrus uncinus OCEANOGRAPHY: Edge of sunglint
3822	12	*23 35N	58 05W	0	Normal	62	1641	97	-	30	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean; BOMEX area. METEORLOGY: Cirrocumulus, Alto-cumulus; Cumulus humilis. OCEANOGRAPHY: Edge of sunglint.
3823	12	*23 00N	57 00W	0	Normal	62	1641	97	-	30	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean; BOMEX area. METEORLOGY: Alto-cumulus, Cumulus Humilis. OCEANOGRAPHY: Edge of sunglint.

Note: End of Magazine CC (B&W IR Film) Frame 3823 is only 20% of a full frame.

3824	12	*22 25N	55 55W	0	Normal	61	1642	97	-	70	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean; BOMEX area. METEORLOGY: Cirrocumulus; Cumulus congestus; Alto-cumulus. OCEANOGRAPHY: Sunglint.
3825	12	*21 50N	54 40W	0	Normal	61	1642	97	-	40	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Cumulus congestus; Alto-cumulus. OCEANOGRAPHY: Sunglint.

SO-G5 MULTISPECTRAL PHOTOGRAPHS
AS 9-26

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3826	12 Mar	*21 15N	53 15W	0	Normal	61	1642	97	-	20	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean; BOMEX area. METEORLOGY: Alto-cumulus. OCEANOGRAPHY: Sunlight.
3827	12	*20 45N	52 15W	0	Normal	61	1643	97	-	15	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean; BOMEX area. METEORLOGY: Alto-cumulus; Cumulus congestus. OCEANOGRAPHY: Sunlight.
3828	12	*20 05N	51 00W	0	Normal	61	1644	97	-	35	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean; BOMEX area. METEORLOGY: Alto-cumulus; cumulus congestus. OCEANOGRAPHY: Sunlight.
3829	12	*19 35N	49 55W	0	Normal	60	1643	98	-	35	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus, Cumulus congestus, Cumulus humilis. OCEANOGRAPHY: Sunlight.
3830	12	*19 00N	48 40W	0	Normal	60	1644	98	-	5	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus. OCEANOGRAPHY: Sunlight.
3831	12	*18 20N	47 20W	0	Normal	60	1644	98	-	30	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean; BOMEX area. METEORLOGY: Alto-cumulus; Cumulus congestus. OCEANOGRAPHY: Anomalous tonal pattern in sunlight.
3832	12	*17 30N	46 15W	0	Normal	60	1644	98	-	70	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus, Cumulus congestus. OCEANOGRAPHY: Sunlight.
3833	12	*16 45N	45 10W	0	Normal	60	1645	99	-	45	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Cirrocumulus, Alto-cumulus. OCEANOGRAPHY: Sunlight.
3834	12	*16 00N	44 00W	0	Normal	60	1645	99	-	30	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Cirrocumulus OCEANOGRAPHY: Sunlight.

A-148

* NADIR POINT OF CAMERA

SO-65 MULTISPECTRAL PHOTOGRAPHS

AS 9-26

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
Note: End of Magazine AA (Color IR SO-180 Film)											
Mar											
3835	12	*15 30N	43 15W	40	Normal	60	1645	99	-	60	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus Translucidis, Cumulus congestus. OCEANOGRAPHY: Sunlight.
3836	12	*15 20N	43 00W	40	Normal	59	1645	100	-	40	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus; Cumulus congestus, Cumulus humilis. OCEANOGRAPHY: Sunlight
3837	12	*14 50N	41 55W	0	Normal	59	1646	100	-	20	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus; Cumulus humilis. OCEANOGRAPHY: Sunlight.
3838	12	*14 00N	40 40W	0	Normal	59	1646	100	-	15	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus OCEANOGRAPHY: Sunlight
3839	12	*13 25N	39 45W	90	Normal	58	1646	101	-	15	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus. OCEANOGRAPHY: Sunlight.
3840	12	*13 20N	39 30W	90	Normal	58	1646	101	-	30	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus OCEANOGRAPHY: Sunlight
3841	12	*12 40N	38 25W	0	Normal	57	1647	101	-	40	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus. OCEANOGRAPHY: Sunlight.
3842	12	*12 00N	37 15W	0	Normal	56	1647	101	-	50	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus
3843	12	*11 10N	36 05W	0	Normal	55	1647	102	-	40	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus.

* NADIR POINT OF CAMERA

A-149

Frame No.	Date	Principal Point		Percent Overlap	Image Evaluation	Sun Elevation	GMT	Altitude n. mi.	ONC WAC No.	% Cloud Cover	Description
		Latitude deg. min.	Longitude deg. min.								
3844	Mar 12	*10 25N	35 00W	10	Normal	54	1648	104	-	40	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus.
3845	12	*09 45N	33 55W	0	Normal	53	1648	105	-	40	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus.
3846	12	*08 55N	32 45W	0	Normal	52	1648	106	-	0	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus, Cirrus fibratus.
3847	12	*08 05N	31 35W	0	Normal	51	1649	106	-	40	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus.
3848	12	*07 25N	30 35W	0	Normal	50	1649	107	-	40	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus.
3849	12	*06 40N	29 35W	0	Normal	49	1649	108	-	40	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus.
3850	12	*06 00N	28 35W	0	Normal	48	1650	109	-	40	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus; Cirrus.
3851	12	*05 10N	27 25W	0	Normal	47	1650	110	-	40	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus; Cumulus congestus.
3852	12	*04 20N	26 15W	0	Normal	46	1650	111	-	40	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus, Cumulus congestus; Cirrocumulus.
3853	12	*03 40N	25 20W	0	Normal	45	1651	111	-	40	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus; Cirrocumulus; Cumulus congestus
3854	12	*02 55N	24 15W	0	Normal	44	1651	112	-	40	GEOGRAPHY/CARTOGRAPHY: Atlantic Ocean, BOMEX area. METEORLOGY: Alto-cumulus, Cirrocumulus, Cirrus spissatus Cumulus Congestus; Cumulonimbus.

* NADIR POINT OF CAMERA

A-150

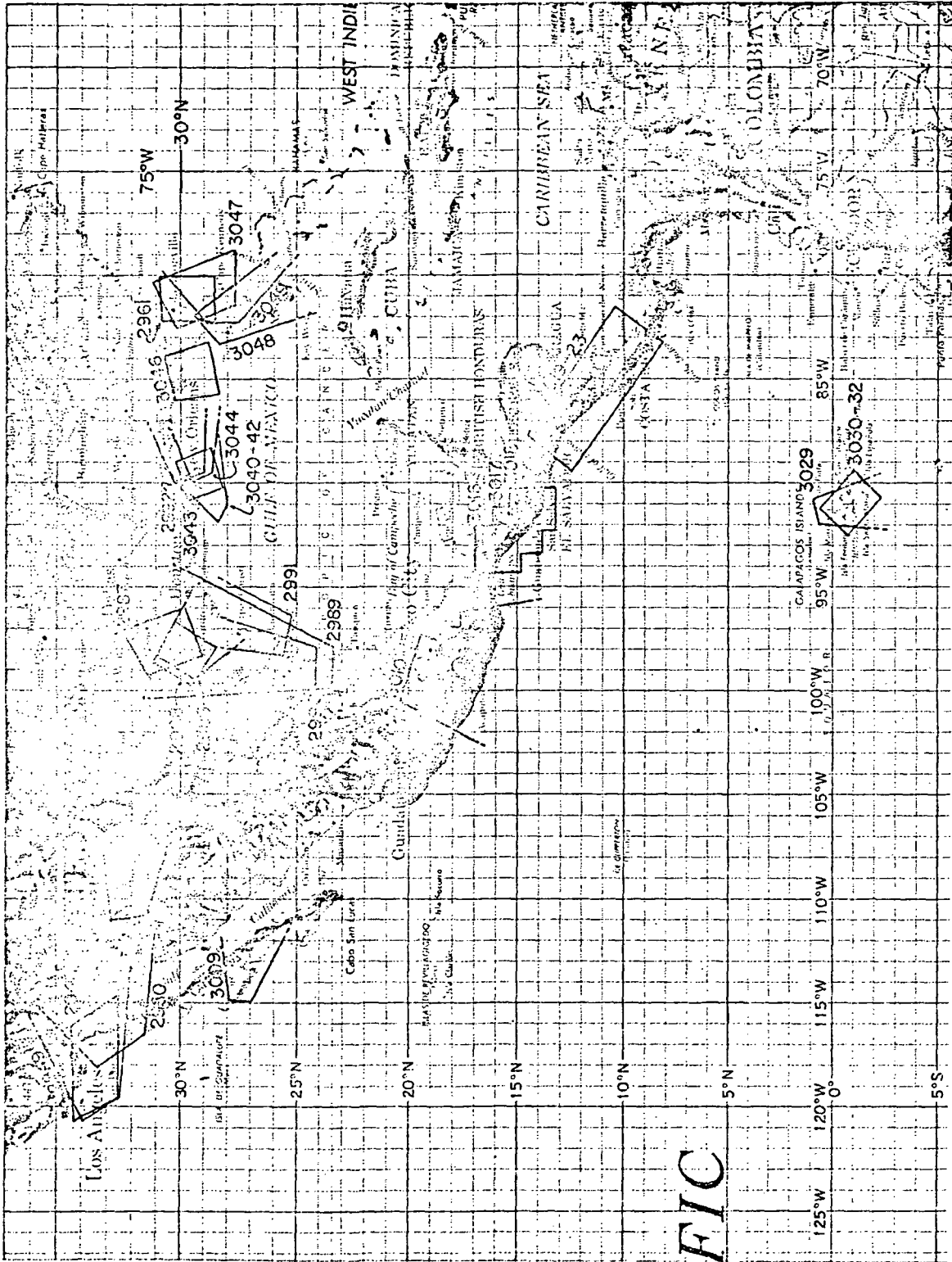
Frames Pertaining to Each Discipline

<u>Geography/ Cartography</u>	<u>Geology/ Hydrology</u>	<u>Agriculture</u>	<u>Forestry</u>	<u>Meteorology</u>	<u>Oceanography</u>
2948-2951	2948-50	2961	2961	2948-51	2949-50
2961	2961	2986-90	2986-90	2961	2989-91
2986-2992	2986-92	3008	3006	2986-92	3019
3006-3032	3006-3023	3011-15	3008-22	3006-32	3029-32
3034-3052	3029-32	3017-22	3029-32	3035-49	3042-47
3106-3151	3034-52	3046-49	3036	3106-3123	3049
3157-3174	3106-3119	3111-15	3043-52	3125-48	3124-30
3176-3177	3122-30	3122-28	3106-3117	3149-51	3148-50
3256-3278	3132-48	3133-48	3119	3157-74	3262-63
3282-3293	3157-68	3157	3122-29	3177	3270-75
3295-3322	3173-74	3160-63	3133-48	3256-59	3286
3324-3421	3176-77	3263	3157-68	3262-78	3289
3424-3499	3256	3265-76	3177	3282-87	3312-18
3502-3547	3259-72	3282-87	3262-76	3289-93	3321-22
3551-3591	3282	3289-93	3282-87	3298	
3601-3617	3284-3303	3295-3303	3289-93	3301-03	
3653-3660	3305-22	3305-08	3295-99	3305-22	
3667		3310-11	3301-02		
3664-3681		3313-15	3305-11		
3696-3729		3318	3313-15		
3731-3854			3317-18		
			3322		
	3325-52	3329-44	3328-52	3324-33	3324
	3357-73	3347-52	3357-59	3335-37	3342-59
	3379-3421	3358-59	3361-73	3339-41	3371
	3426-29	3361-73	3379-81	3343-59	3373
	3432-74	3386	3405-07	3361	3382-85
	3475-99	3405-07	3413-20	3363-86	3408-10
	3502-08	3413-20	3433-37	3402-07	3413
	3510-47	3437	3441	3411-21	3415-20
		3441	3444-45	3424-51	3424-36
		3444-45	3447-55	3454-74	3456
		3447-55	3457-65	3475-77	3462
		3457-65	3467-74	3482-90	3464-74
		3468-74	3475-96	3493	3475
		3475-91	3502	3495-99	3477
		3495	3510-19	3502-10	3480
		3502	3523-24	3513-21	3489-96
		3513-14	3527-28	3525-26	3508
		3516-18	3530-40	3531	3514
		3521-22	3542-47	3533-46	3518-19
		3527			3521
		3530			3523
		3543-46			3540-46

Frames Pertaining to Each Discipline

<u>ography/ tography</u>	<u>Geology/ Hydrology</u>	<u>Agriculture</u>	<u>Forestry</u>	<u>Meteorology</u>	<u>Oceanography</u>
3551-87	3551-52	3551-60	3548-58	3551-52	
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3617	3558	3573-87	3570-94	3559	
3669-79	3560-86	3601-12	3601-06	3568-70	
3682-92	3601-12	3617	3611-17	3588	
3694-95	3617	3669-79	3653-60	3601	
3698-3729	3679	3682-92	3667-81	3610	
3731-60	3687-88	3698-3708		3667	
3764-70	3691	3718-29	3682-95	3670-73	
3775-77	3698-3709	3732-60	3696-3722	3691	
3779-95	3718-3721	3764-69	3727-39	3724-29	
3797-3816	3723-29	3775-76	3741-81	3731-33	
	3732-60	3779-94	3785-89	3744-46	
	3764-69	3796-3816	3794-98	3758-60	
	3775-76		3801-06	3776-78	
	3779-94		3809-54	3781-83	
	3797-3816			3793-95	
				3797-98	
				3816-41	

A-152



APOLLO 9 Handheld Photography - MAGAZINE A

A-153



APOLLO 9 Handheld Photography - MAGAZINE A

A-154



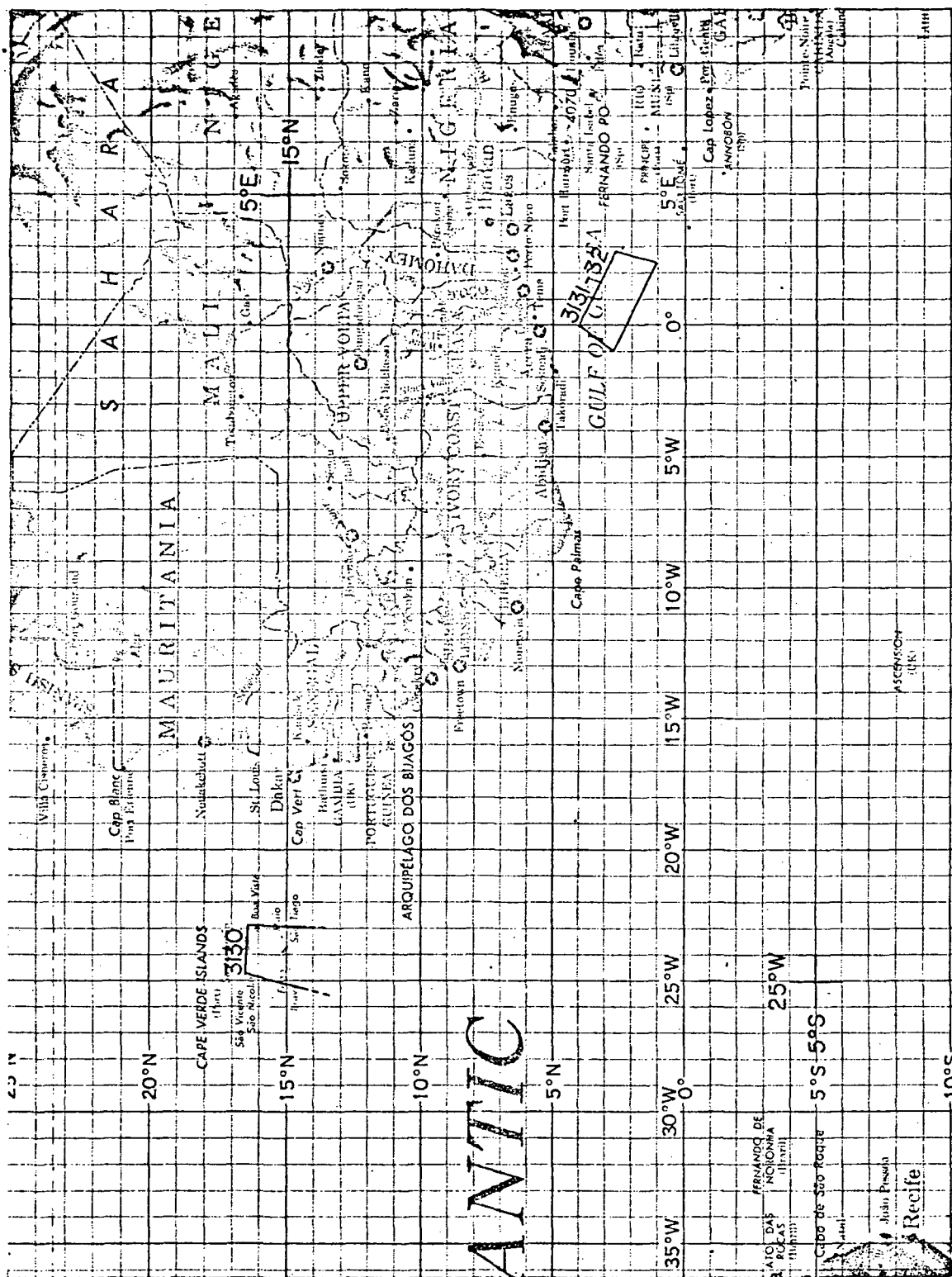
APOLLO 9 Handheld Photography - MAGAZINE A

A-155



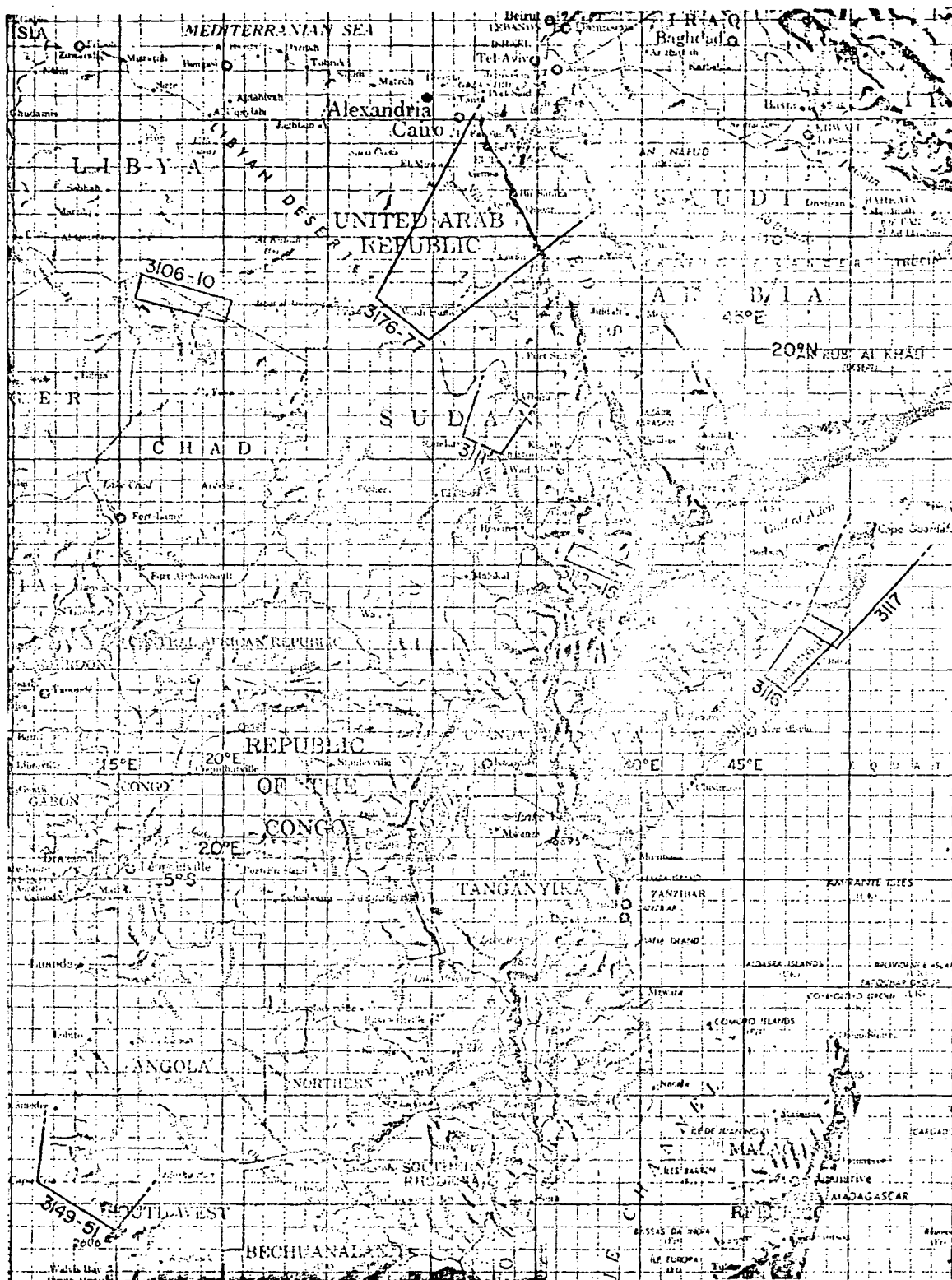
APOLLO 9 Handheld Photography - MAGAZINE E

A-157



APOLLO 9 Handheld Photography - MAGAZINE E

A-158



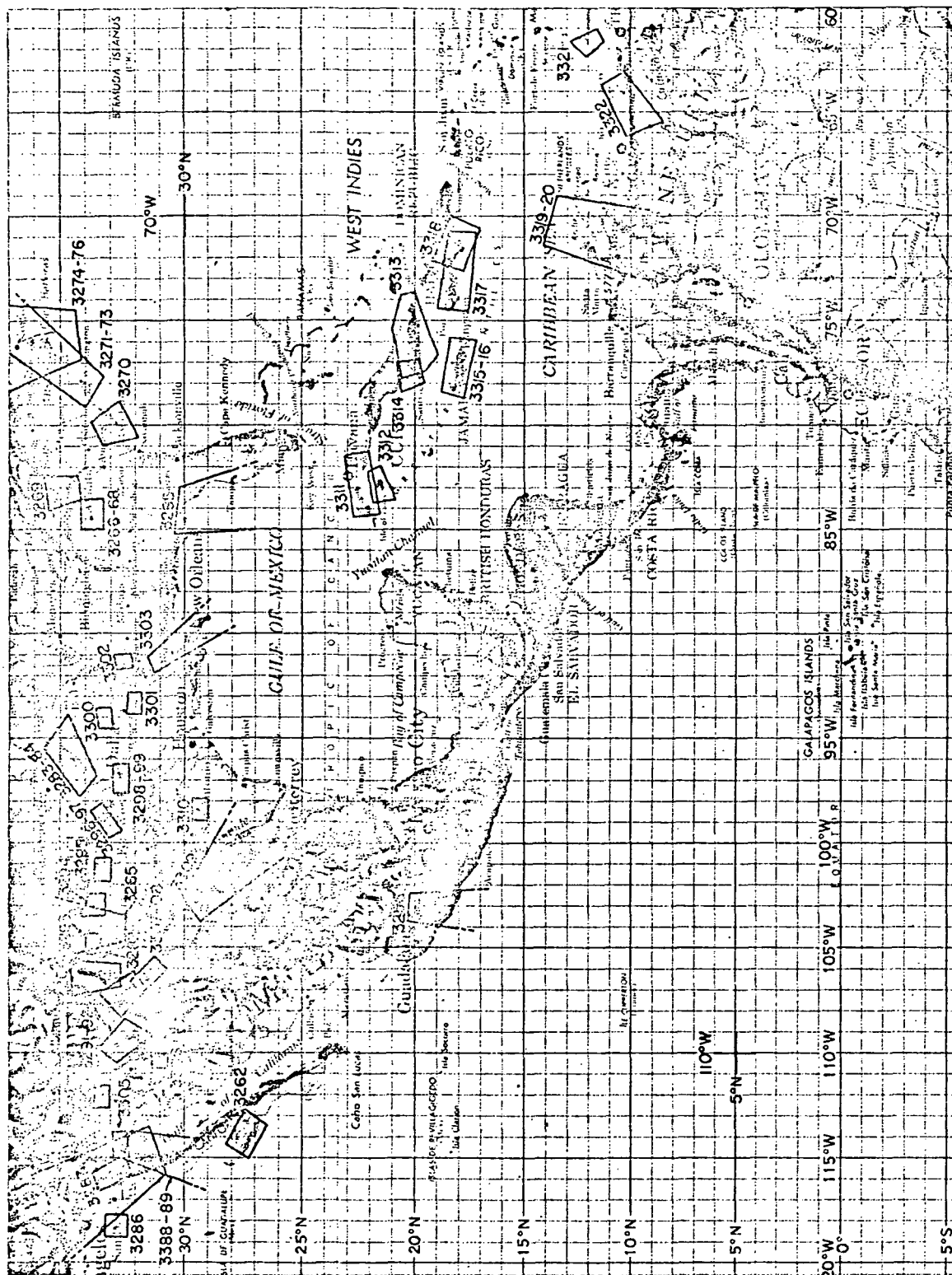
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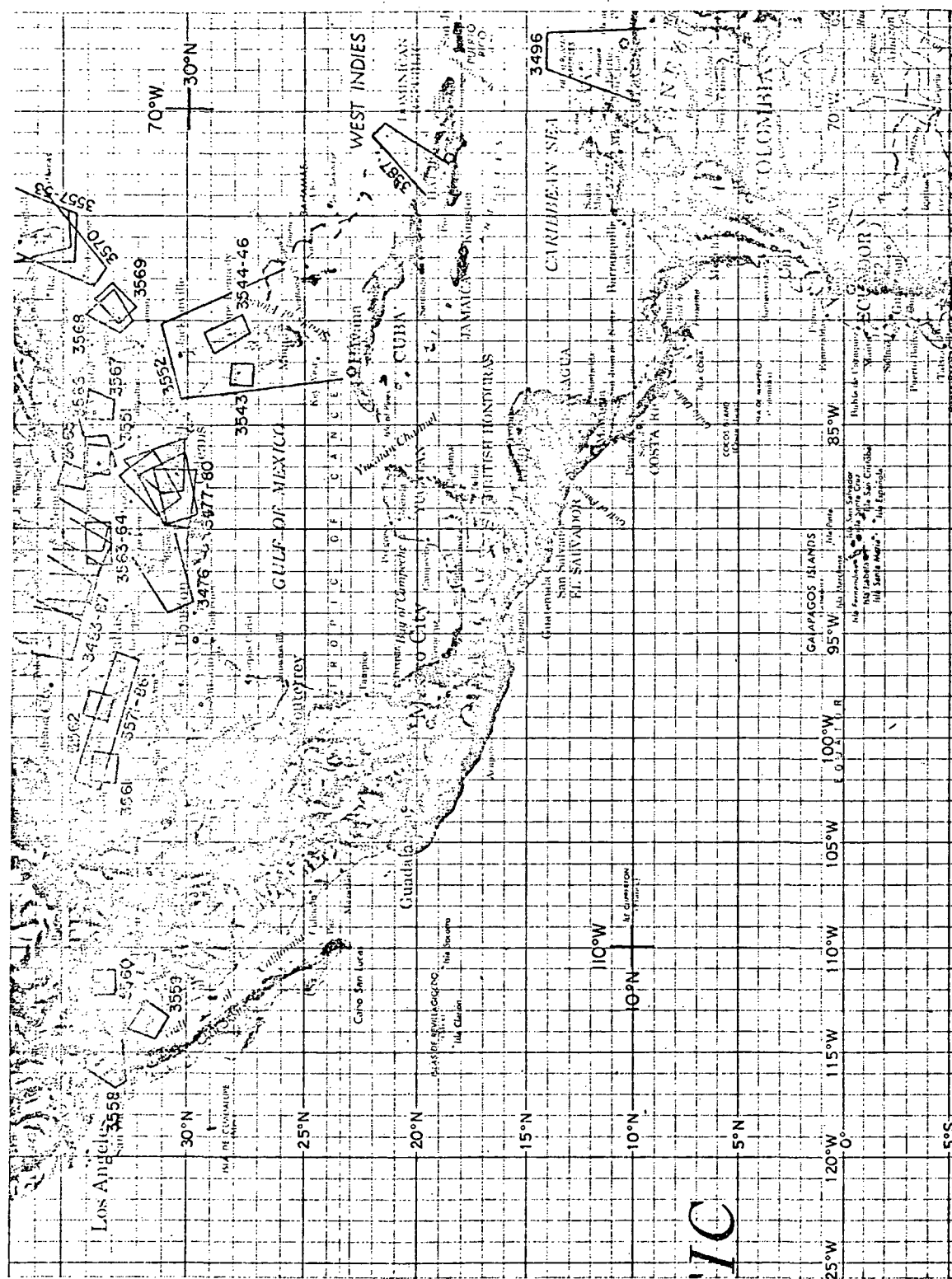
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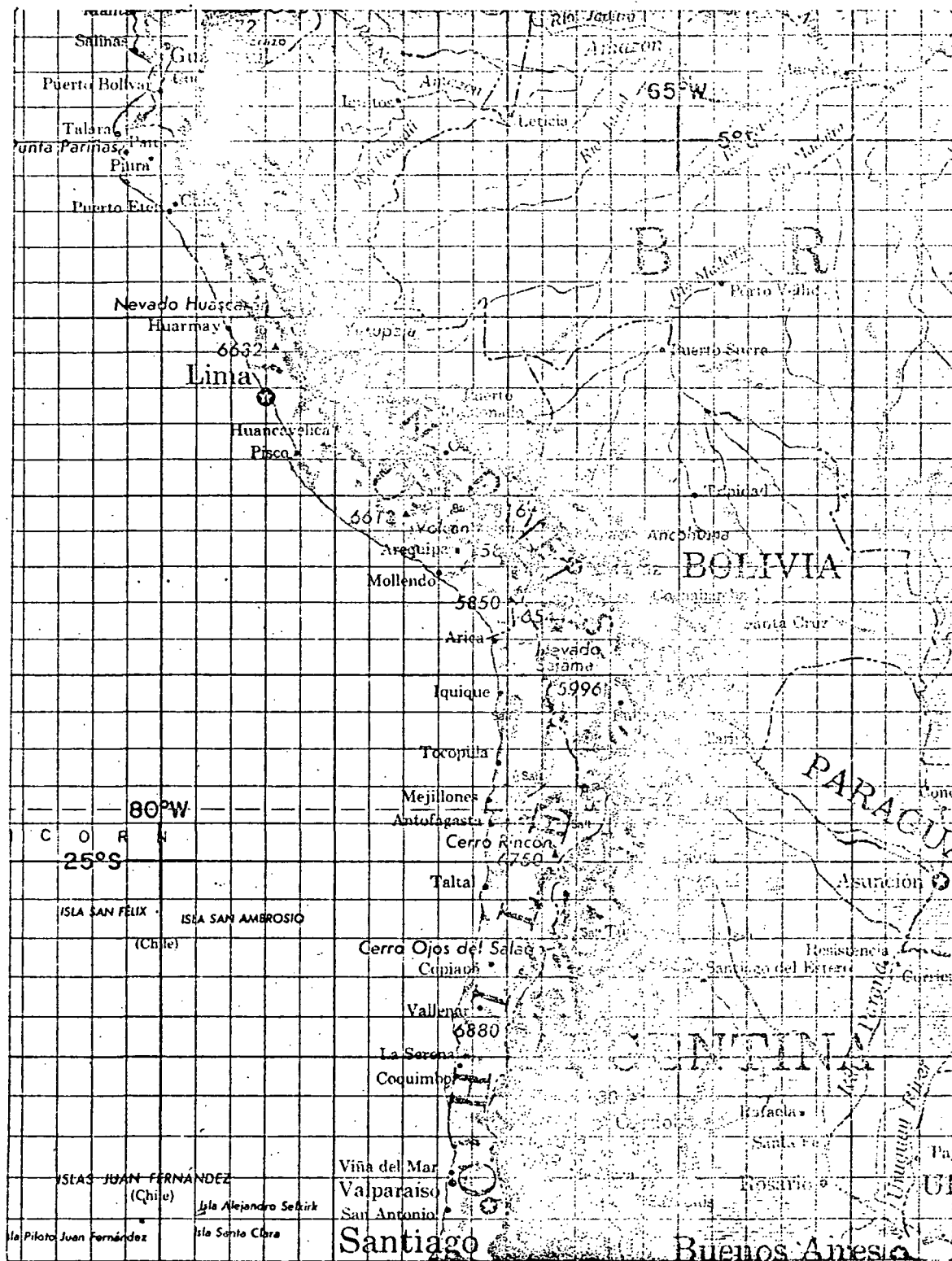


A-160

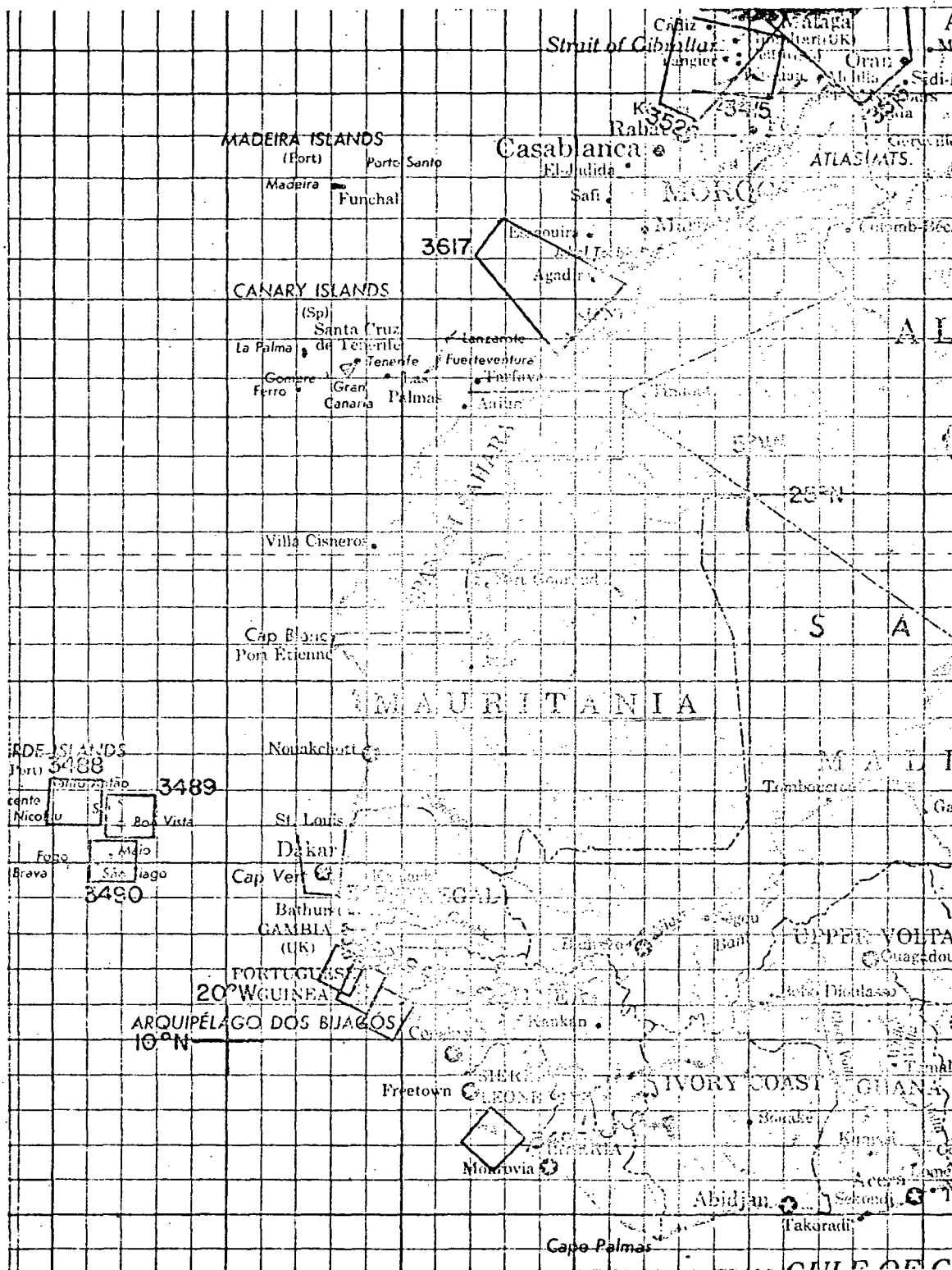
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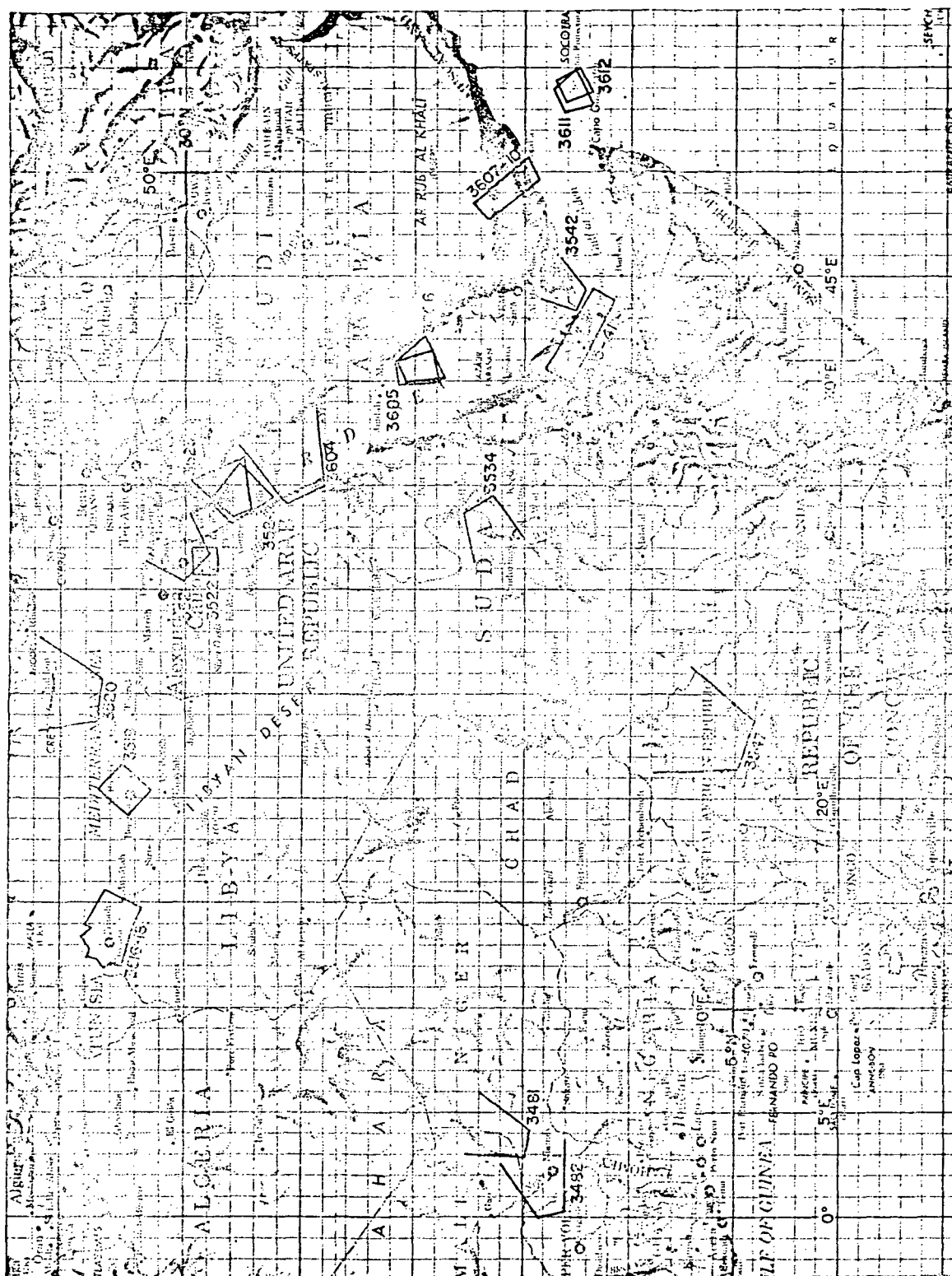


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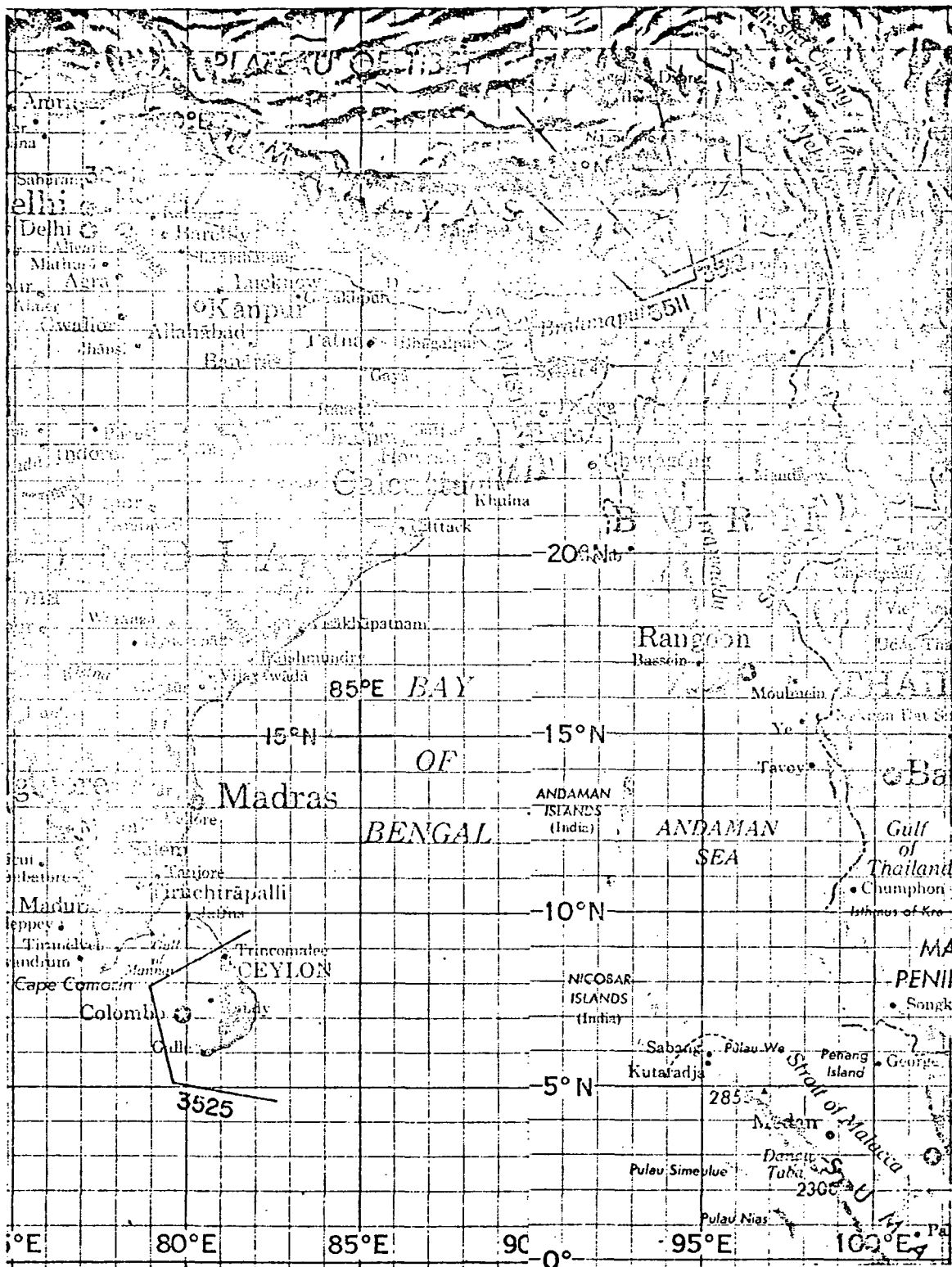
A-166

APOLLO 9 Handheld Photography - MAGAZINE D



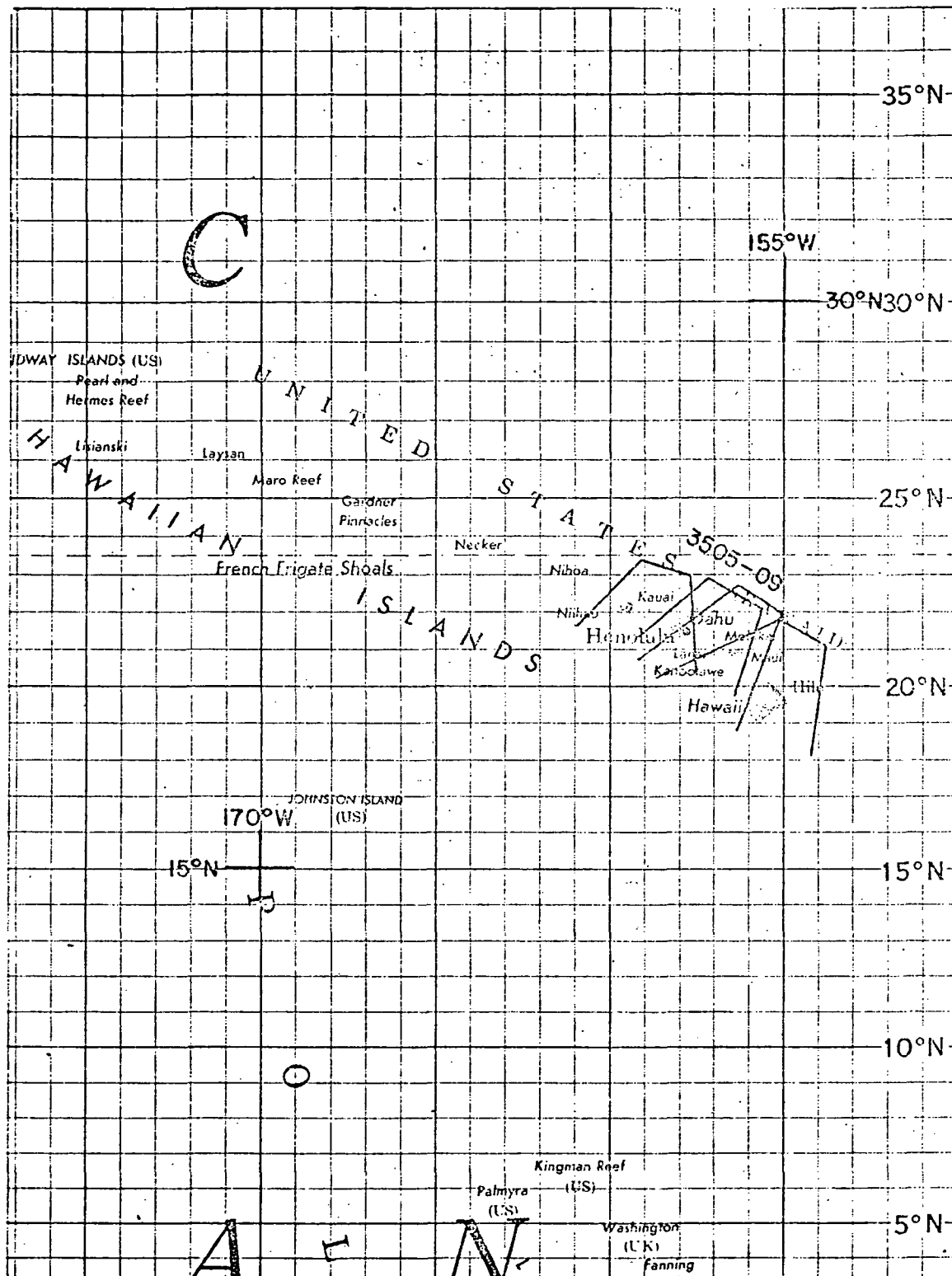
APOLLO 9 Handheld Photography - MAGAZINE D

A-167



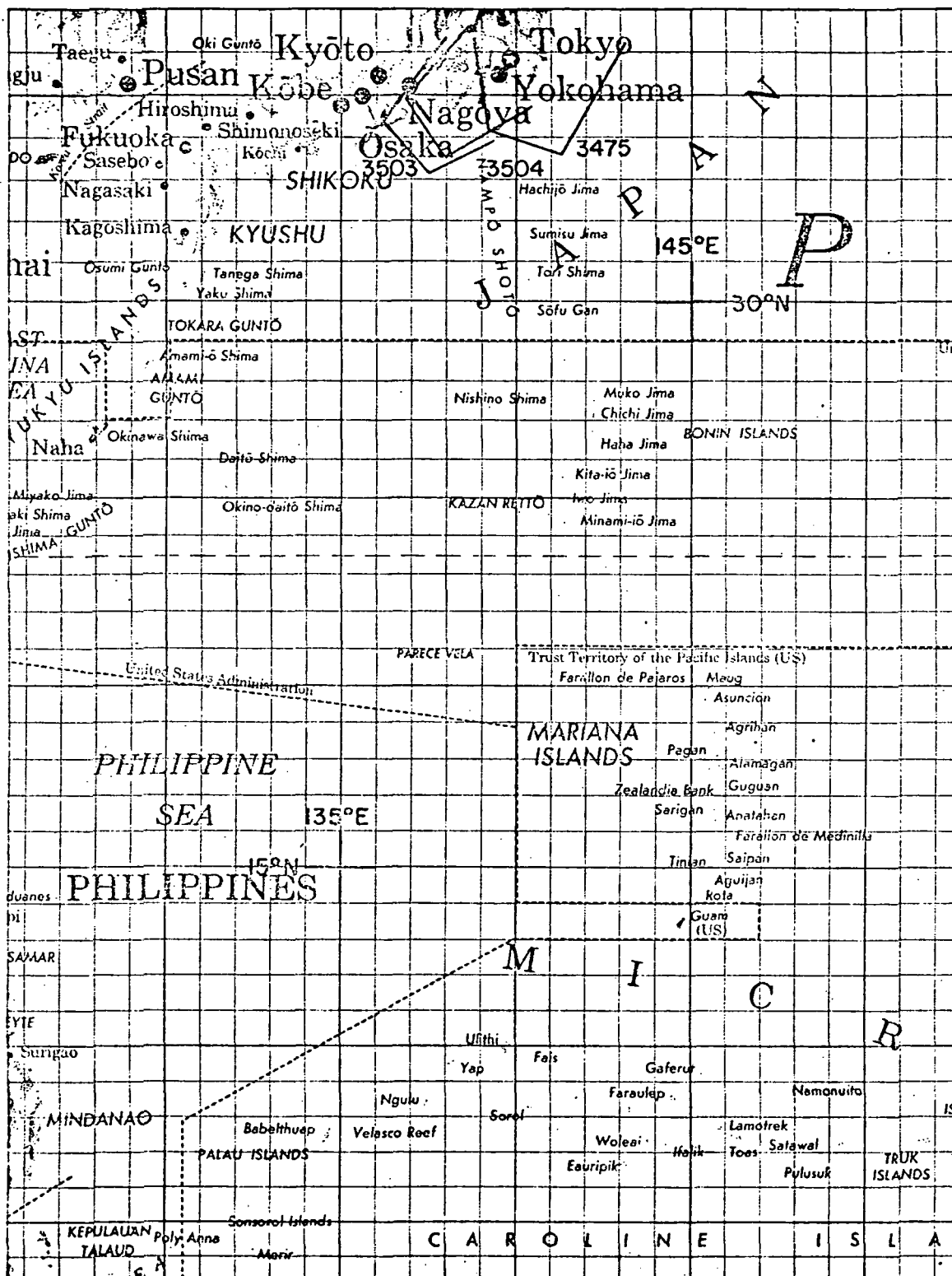
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APOLLO 9 Handheld Photography - MAGAZINE D



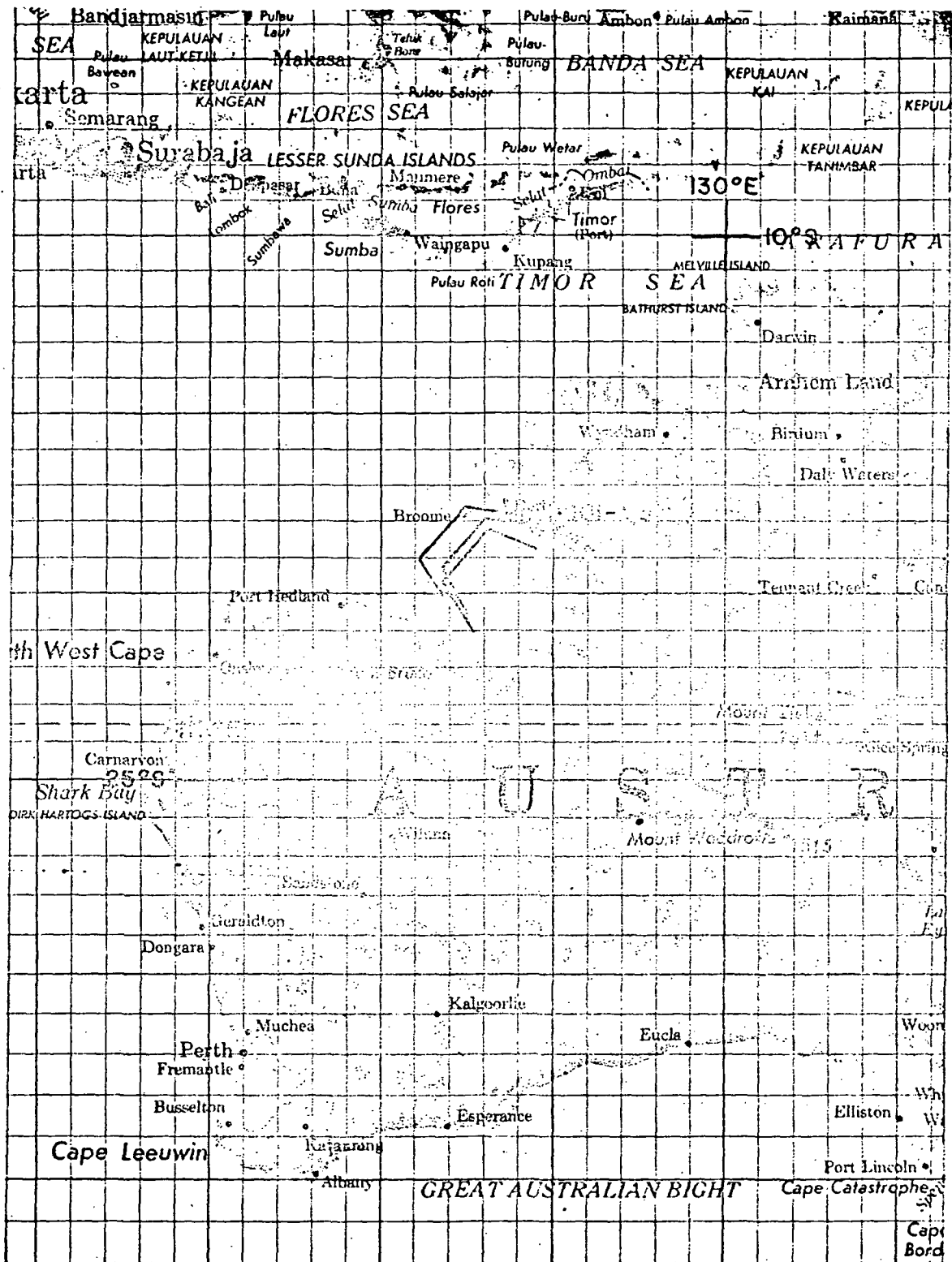
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APOLLO 9 Handheld Photography - MAGAZINE D



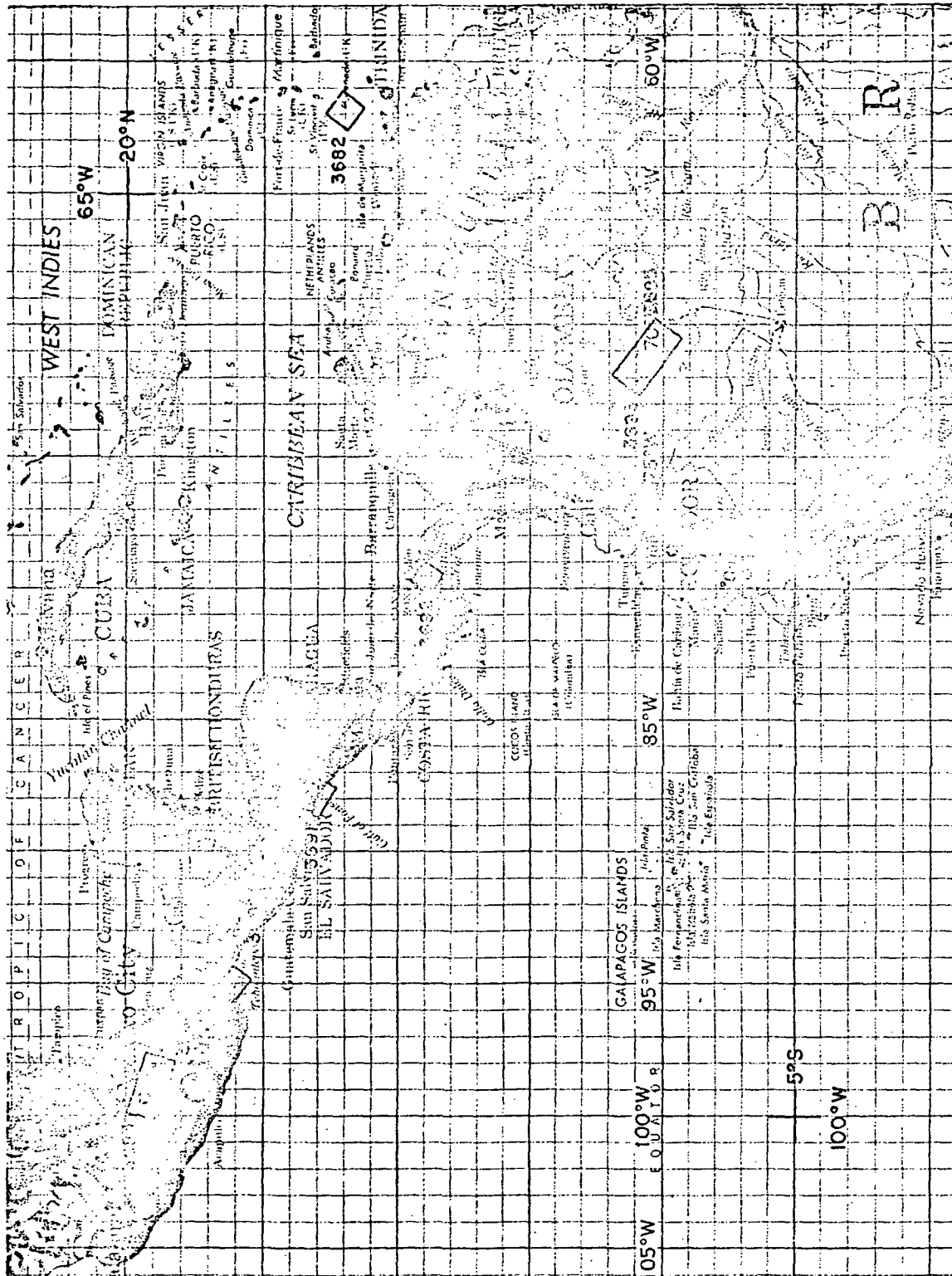
A-170

APOLLO 9 Handheld Photography - MAGAZINE D



A-171

APOLLO 9 Handheld Photography - MAGAZINE D



APOLLO 9 Handheld Photography - MAGAZINE G

A-173

APPENDIX

B

APOLLO 9 16MM SPACECRAFT

PHOTOGRAPHIC CATALOGUE

Apollo 9, 16mm Spacecraft Photographic Catalogue

Frame Numbers	Revolution	Date	Description
1 - 633			Command Module.
634 - 1904			Africa, Central Libya to Nile River.
1905 - 2053	133	March 11	Africa, United Arab Republic, Lake Nassar, Nile River.
2054 - 2427			Africa, Red Sea, Saudi Arabia.
2428 - 2732			Africa, Saudi Arabia, Yemen.
2733 - 2811	109	March 9	Baja California, Mexico, United States, Pinacates.
2812 - 3885	109	March 9	United States, Mexico, Texas, Gulf Coast.
3886 - 7647	124	March 10	Gulf of Mexico, clouds, South America, northern region.
7648 - 8067	104	March 9	Clouds over Africa.
8068 - 8201	104	March 9	Africa, Saudi Arabia, Red Sea coast.
8202 - 8406	104	March 9	Saudi Arabia, Red Sea and horizon.
8407 - 8620	109	March 9	Santa Catalina Island off the coast of California, and clouds.
8621 - 9129			Clouds.
9130 - 10703	132	March 11	Clouds over Australia.
10704 - 15233			LM Spacecraft from Command Module, Baja California.
15234 - 15761			LM Spacecraft.
15762 - 17938			Command Module and LM.
17939 - 18921			Clouds and window reflections.
18922 - 19302	124	March 10	Command Module, Pacific Ocean and Baja California, Mexico, Ciudad Obregon.

Frame Numbers	Revolution	Date	Description
19303 - 20278			Darkness and urine dump.
20279 - 22408	106	March 9	Africa, Mauritania, Timbuctu, Mali, Nigeria, Congo, Central Sahara.
22409 - 22983	106	March 9	Africa, Tanzania, Malagasy Republic, Indian Ocean.
22984 - 25038			LM Spacecraft off Baja California and clouds.
25039 - 25349	105	March 9	Africa, Algeria, Tibesti Mountains, Sahara, Sudan, Ethiopia, Rift valley.
25350 - 27600	121	March 10	California, San Diego, Salton Sea, Phoenix, Roswell, Midland, Odessa, Dallas, Red River, Atlanta, Charleston.
27601 - 28585			Clouds over ocean, and an island.
28586 - 31569	123	March 10	United States, Arizona, White Sands, West Texas, Clouds, Gulf of Mexico.
31570 - 34150	124	March 10	Florida Keys, Andros Island, Tongue of the Ocean, Crooked Island, Grand Turk Islands, Puerto Rico, Virgin Islands, Leeward Islands, Lesser Antilles, Martinique.

B-2

SECTION 7

INDEX MAPS FOR APOLLO 6, 7, AND 9
(Reference 7)



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

APOLLO EARTH PHOTOGRAPHS

INDEX MAPS

APOLLO MISSIONS 6, 7, AND 9



MANNED SPACECRAFT CENTER

HOUSTON, TEXAS

MAY 1970

-416-

57-00301
70-000000



CONTENTS

Title	Page
APOLLO EARTH PHOTOGRAPHS INDEX MAPS -	
APOLLO MISSIONS 6 AND 7	1
Apollo 6 and 7 - Handheld Photography -	
Magazines M to S; Part I	3
Apollo Photo Coverage Enlargement of	
Baja California Area	4
Apollo 6 and 7 - Handheld Photography -	
Magazines M to S; Part II	5
Apollo Photo Coverage Enlargement of	
Sinai Peninsula Area	6
Apollo 6 and 7 - Handheld Photography -	
Magazines M to S; Part III	7
APOLLO EARTH PHOTOGRAPHS INDEX MAPS -	
APOLLO MISSION 9	9
Apollo 9 Handheld Photography -	
Magazine A; Part I	11
Apollo 9 Handheld Photography -	
Magazine A; Part II	12
Apollo Handheld Photography -	
Magazine A; Part III	13
Apollo 9 Handheld Photography -	
Magazine B	14
Apollo 9 Handheld Photography -	
Magazine C; Part I	15
Apollo 9 Handheld Photography -	
Magazine C; Part II	16
Apollo 9 Handheld Photography -	
Magazine D; Part I	17

Title	Page
Apollo 9 Handheld Photography - Magazine D; Part II	18
Apollo 9 Handheld Photography - Magazine D; Part III	19
Apollo 9 Handheld Photography - Magazine D; Part IV	20
Apollo 9 Handheld Photography - Magazine D; Part V	21
Apollo 9 Handheld Photography - Magazine D; Part VI	22
Apollo 9 Handheld Photography - Magazine D; Part VII	23
Apollo 9 Handheld Photography - Magazine D; Part VIII	24
Apollo 9 Handheld Photography - Magazine E; Part I	25
Apollo 9 Handheld Photography - Magazine E; Part II	26
Apollo 9 Handheld Photography - Magazine E; Part III	27
Apollo 9 Handheld Photography - Magazine E; Part IV	28
Apollo 9 Handheld Photography - Magazine E; Part V	29
Apollo 9 Handheld Photography - Magazine F	30
Apollo 9 Handheld Photography - Magazine G	31

Title

Page

Apollo 9 SO-65 Multispectral
Photography; Part I 32

Apollo 9 SO-65 Multispectral
Photography; Part II 33

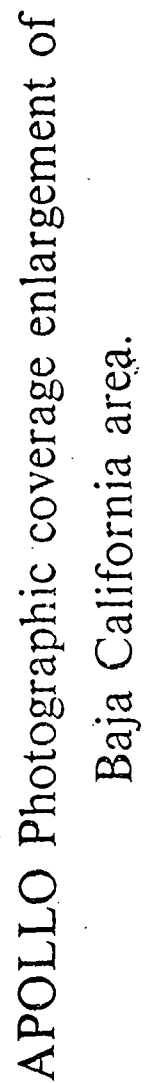


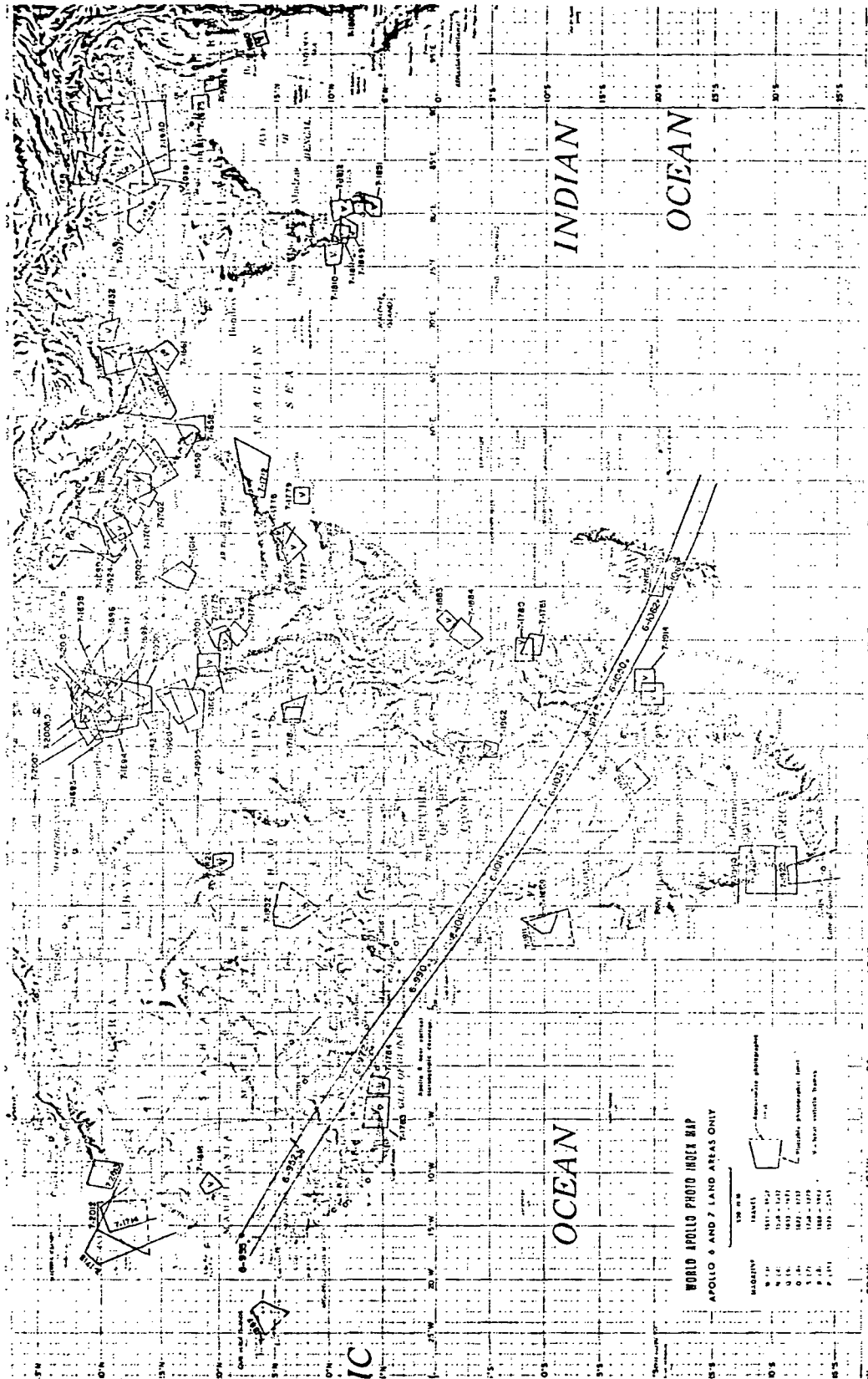
APOLLO EARTH PHOTOGRAPHS INDEX MAPS

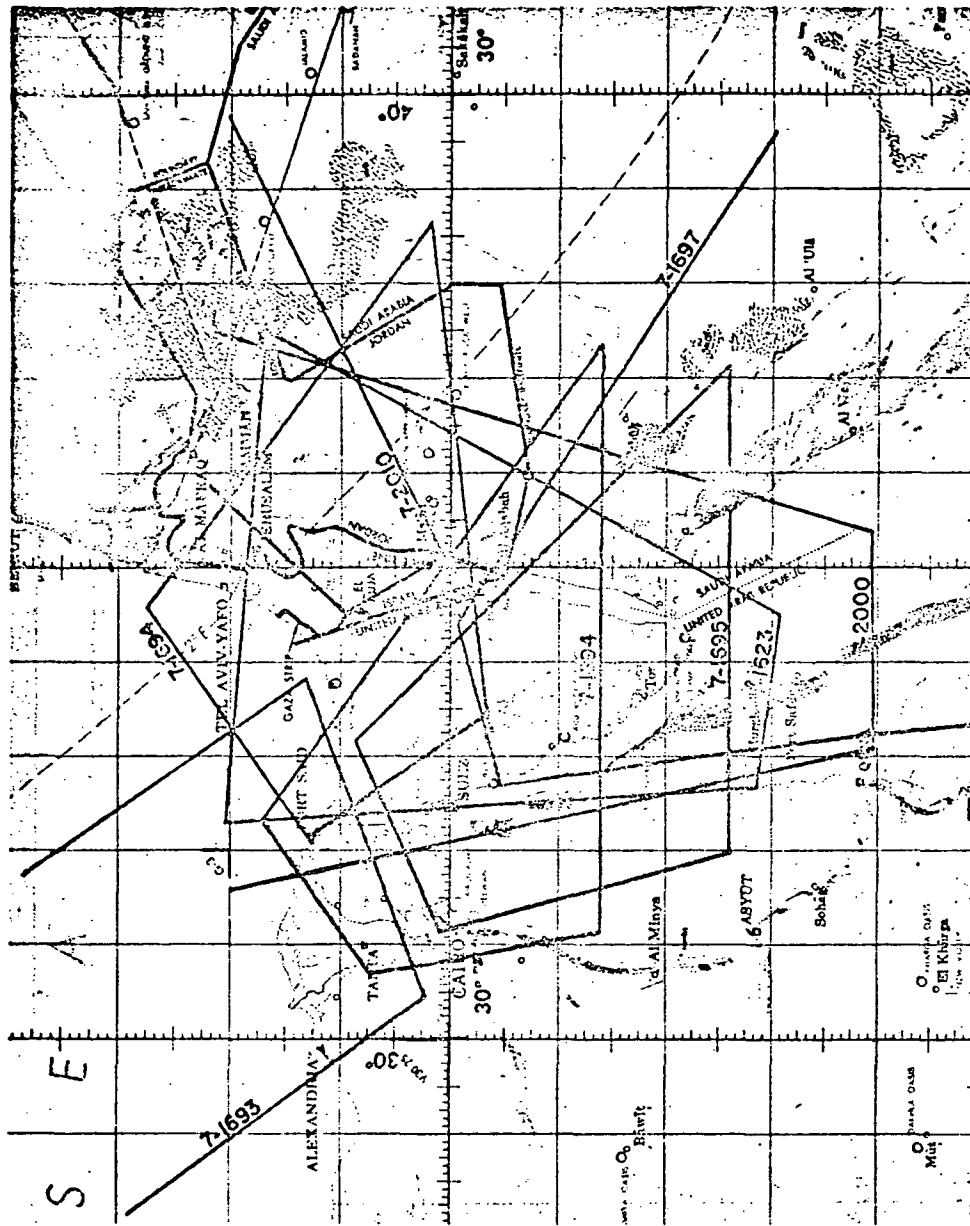
APOLLO MISSIONS 6 AND 7



APOLLO 6 and 7 Handheld Photography – MAGAZINES M to S, Part I







APOLLO Photographic coverage enlargement of
Sinai Peninsula area.

